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### A RESUME

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### SURGICAL OPERATIONS

FROM APRIL 26, 1893, TO MAY 3, 1894,

IN THE PRACTICE OF

### Dudley P. Allen, M. D.,

PROFESSOR OF SURGERY IN THE MEDICAL DEPARTMENT OF THE
WESTERN RESERVE UNIVERSITY, CLEVELAND, OHIO.
VISITING SURGEON TO LAKESIDE AND CHARITY HOSPITALS.

CONSULTING SURGEON TO CITY HOSPITAL.

MEMBER OF THE AMERICAN SURGICAL ASSOCIATION.

By WILLIAM H. NEVISON, M. D.,

ASSISTANT TO DR. ALLEN.



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Assistant to Dr. Allen.

The following is a summary of the operations in the order in which they have been considered:

Laparotomies	80
Abdominal operations (not laparotomies)	18
Operations upon the chest	28
Operations upon the genito-urinary organs—males	25
" " " females	41
Operations upon the rectum and anus	30
Operations upon the head and neck	59
Operations upon the upper extremities	35
Operations upon the lower extremities	37
Miscellaneous operations	2
Total	355

### LAPAROTOMIES.

Appendicitis	30
Oophorectomies and Salpingectomies	23
Ovariotomies	7
Laparotomies for uterine fibroids	-5
Pelvic abscess	
Tubercular peritonitis	1
Gunshot wounds of intestine	1
Cholycystotomies	2
Intestinal obstruction	3
Inguinal colotmy	1
Complicated pregnancies	
Tubal pregnancies	
Ventral fixation uterus	
Sarcoma messentery	1
Total	80

### PREPARATION OF PATIENT.

The bowels were moved by laxatives the day before the operation and the lower bowel cleared by an enema of water the following morning.

The day preceding the operation the patient received a light diet, and no breakfast the morning of the operation. The evening before a bath was give, and an antiseptic dressing applied.

### ANÆSTHESIA.

Ether was given in all cases unless contraindicated by lung or kidney complications. In many cases the patient was given choloroform until unconscious, and the operation then continued under ether.

### PREPARATION OF INSTRUMENTS AND DRESSINGS.

The cat-gut was soaked in a solution of bi-chloride for 12 hours, and then preserved in alcohol and juniper oil, and boiled in alcohol just before being placed in the glass receptacle ready for use.

Silk was boiled in a solution of carbolic acid, and preserved in a solution of the same. Silk worm gut was washed in bi-chloride just before using.

The dressings, towels and operating gowns were sterilized before the operation. Sponges were thoroughly beaten and washed, then placed in a solution of permanganate of potash and bleached in sulphurous acid. They were preserved until used in a solution of 1 to 20 carbolic.

The instruments were sterilized before operation, and placed in trays with distilled water. The hands of the operator and assistants were thoroughly scrubbed and immersed in a saturated solution of permanganate of potash, and bleached in a solution of oxalic acid and hyposulphide of soda.

### IRRIGATION AND DRAINAGE.

Distilled water was used for irrigation. Drainage was used in those cases in which pus was present, or when there was prolonged oozing from torn adhesions. In the latter instances a Milkulicz tampon, tightly-packed, was found to control the hemorrhage, and thoroughly drain the cavity.

### AFTER TREATMENT.

Nothing was given by stomach until all feelings of nausea had passed, and the patient was then allowed a little hot tea or hot water, and later milk and lime water, or beef tea.

Morphine was given as sparingly as possible and only for severe pain. The intense thirst was greatly relieved by stimulating enemata.

On the third or fourth day the bowels were moved with small doses of mild chloride, followed by salts.

The interior strips of the tampon were removed the day following the operation, and the handkerchief on the fourth or fifth day. The removal of the handkerchief was greatly facilitated by attaching a silk thread to the center, and by pulling this the tampon was everted. The abdominal stitches were removed as a rule about the 10th day.

### APPENDICITIS (CHRONIC CASES.)

Remarks.	Wound healed absolutely by first intention. Left hospital 28 days after operation. No trouble since.	Wound healed by granulation. Patient left hospital. If days after operation. Wound was entirely closed in about four months.	Patient went on nicely for a few days, then developed symptoms of periton itis. Was in very bad condition for several days. Wound suppurated superficially. Patient made complete recovery.
Result.	zi.	24	ಜೆ
Appendix and concretions.	Mucous membrane ulcerated and constituted near its base; no concretion.	Distal portion appendix one inch long ul-cerated and completely described from the cerated cerated cerated cerated cerated from cerate.	Appendix ulberated and bent twice at right augles, forming almost complete skrictures at these points; no concretion,
Operation.	No adhesions; appendix on anterior surface of cæcum; amputated hran ellerariappendix and invage ed and confinated stump with cut stricted near gut surures. Closed ab its base; no gut sutures. No drainconcretion.	Adhesious from previous operation. Appendix on posterior Distal portion earded and in two inch loug ulparts; portion attached and four was trimmed and detached from the second strainmed and detached from the second strainmed and detached from Dissected out fistulous tracts. Tampon of	Appendix constricted Appendix uland and closely adherent cratted and to credum its entire bent twice and to credum its entire bent twice and to cun during attacks felt by external off and opening into forming alwhich had no con- or vagitual exceeding with most connection with men- amination. Card gut. Closed ab- plete stricted in a mination. Card gut. Closed ab- plete stricted connection with the card these sifts worm gut sutures: points: no no drahlage.
Objective symptoms.	No dulluess; no induration-ex- tremely tender during attacks	Fistula remaintion after operation made 7 months before; when a b cess was drained but could not find appendix.	Nothing to be felt by external our vagitual examination.
Subjective. Objective.	Localized pain over induration-ex- cæcum during at-tremely tender tack.	Tenderuess when	Penderness over cæ. Nothing to cun during attacks felt byexte which had no con- or vagrual nection with menanination.
Tucision.	Over cæcum.	Over crecum.	Median incisiou.
History of previous Incision.	Had 8 attacks during last.	Recurrent attacks during year.	Recurrent attacks for 6 years.
Stage in which operated.	Between attacks.	Second operation between attacks.	Between attacks,
Date and place of operation.	Lakeside Hospital. April 26, 1893.	Lakeside Hospital. April 28, 1893.	Lakeside Hospital. May 16, 1893.
Iu consultation with	Dr. D. H. McMillan. Orville, 0.	Dr. M. Borts.	Dr. I. N. Oakes. Ridgeville,
Nat., age, sex.	Aru. 21 male.	Ger.	Am. 23 female.
No.	1 E.H.G.	, II	H. F.

Uninterrupted recovery. Wound entirely healed in about 3 months. Has regained perfect health.	Uninterrupted recovery. Wound healed by first intention.	Uninterrupted recovery. Entirely healed in about 6 weeks.
සਂ	ਕੁੰ	ಚ
Appendix ulcerated completely throband and only a stump about Fandle long remained. No concretion.	Appendix swollen and mucus membrane ulcerated. No concretion.	Appendix ul- cerated and constricted. No concretion.
Followed sinus down to app bendix—amputated —sewed stump with cargut, Packed wound with gauze.	No adhesions; amputat- Slight, resistance ed appendix. Sewed an dextreme sump with cargut: benderness on closed abdominal pressure over wound with slik worm age.	Appendix amputated and stump sewed with catgut. Appendix was adherent to cacum Appendix uland had ulcerated cerated and through into cacum constricted. about its middle—No concretion. closed opening with catgut. Gauze tampon.
Fistula remain- ing after opera- tion made one year previously when appendix was not found.	Slightresistance and extreme tenderness on pressure over cæcum.	Slight Indura- tion—no dull- ness except during attacks.
Tenderness over cæcum.	Tenderness over cæcun during attacks.	Continued tender-Slight indura- ness on pressure tion—no dual- over cæcum. ne ss except during attacks.
Linea semi- lunaris.	Over cæcum.	Over cæcum.
Recurrent attacks during 16 months.	4 attacks in 2 years.	Recurrent attacks attacks monting 6 montins
Second operation between attacks.	During an attack.	Lakeside Between Hospital. attacks. Oct. 20, 1893.
or. F. W. Lakeside Upson. Hospital. Onneaut, May 17, Ohio. 1893.		s. F. W. and Lakeside Between G. D. Hospital attacks. eneva, Oct. 20,1893.
H 0	Patient a resident of Cleveland.	P. H. D.
Am. 20 male.	Am. 28 male.	Am. 33 male.
1V 0.0.1.	V 5. G.	VI C.H.G.

## APPENDICITIS.—(CHRONIC CASES.)

Remarks.	Sinus remaiued for several weeks after operation.	Uninterrupted recovery—he a le d by first intention. Left hospital 28 days after operation.	Wound suppurated profusly. 8th day after operation developed absecss of left parott which was opened and drained. Patient dinfection.
Result.	ಭ	· zi	Died 15 days after operation.
Appendix and concretions.	Appendix not found. No concretion.	Appendix greatly thick- ened, No cou- cretion.	Nothing left of appendix but a few shreds. No con cretion.
Operation,	Great tenderness in dullness, a nd ing several ounces of Appendix not region of appendix, very tender on pus, Irrigated and found.  Pressure.  No concretion.	Nothing to be No adhesious. Ampufelt. Vaginal tated appendix examination is sump with ear gui;greatly thickshowed therine closed abdominallened. No count appendages wound with silk wormeretion. Rut. No drainage.	Omentum and cecum of rationard and cecum in a mass of adhesions. Nothing left of rationard dull- Appendix had been on appendix but ness. Very anterior surface of a few sireds, tender during execum; only granula. No concretion tissue to be found, tion. Sewed opening into cæcum with cat gut.
Objective symptoms.	Induration and dullness, and very tender on pressure.	Nothing to be felt. Vaginal exam! nation showed uterine appendages normal.	Extensive induration and dull- ness. Very tender during attacks.
Subjective symptoms.	Great tenderness in region of appendix.	Tenderness on deep feit. Vaginal pressure. No con- examination neetion with showed uterine monthly periods. normal.	Extensive indu- ration and dull- ration and dull- uess over region of tender during attacks, during
Incision.	Over cæcum.	Over cæcum.	Over cæcum,
History of previous Incision. attacks.	Had one attack two years ago.	Recurrent attacks duriug 6 years.	Had 7 attacks in 4 months.
Stage in which operated.	During acute attack.	Between attacks.	During a mild attack.
Date and Stage in place of which operation.	Dr. C. D. Residence, Noble, Oct. 26, Oberlin, 1893. Ohio.	Patient Lakeside from New Hospital, Pbila'pbia Nov. 15, Ohio.	Residence, Dec. 2, 1883,
Nat., In consul- Date and age, tation place of sex. with operation.	Dr. C. D. Noble, Oberlin, Onio.	Patient from New Pbila'phia Ohio.	Dr. G. C. Ashmun,
	Am.	Am. 37	Am. 17 male.
No.	VII E. S.	VIII. WALE.	II. D.

Was in very low condition for a week after operation; bo we is to novel fourth day after operation; the additional and two relapses from eatign annee pie and turnips. Wound suppurated; e it is not included to the present after operation; left hospital 37 days after no further toolbe.	Uninterrupted recovery. Wound healed in four weeks. Patient left hospitaled days after operation.	Uninterrupted recovery.  Covery.  Wound entirely  Weeks.  Operated by Dr.  Nevison.
R. Serage Wiring and Serage	E. House	R A A B A B A B A B A B A B A B A B A B
Appendix 4½ inches long: ea fa r.h al condition of mucous memberane; no concretion.	only small strong of appendix remained; concretionsize of a date seed.	Appendix ul- certzled, and about its mid- dle was tight- ly constricted
Natreme tym-  no ve me nt Appendix very long and no ve me nt Appendix very long and no ve me nt Appendix very long and ed; had all ap petely around exeum patient suffer- nation and an appatient and an at this point, and at this point, all asserted condition of seen patient and at this point, dissected condition of seen patient a pendix, closing open- months pre- nonth process of the power of a part of an at this point, and amputated ap- months pre- nonth process of the power of the point and amputated ap- pendix, closing open- nonth process of the power of the point and amputated ap- process of the power of the point and amputated ap- process of the power of the point and amputated ap- pendix displayed of the power of the p	Cæcum and omentum Only small in- in amassofadhesions; stump of apull, appendix destroyed, pendix renew with exception of short mained; contres- stump; sewed opening cretion size of into cecum with cat- a date seed. gut. Tampon of gauze.	Caecum adherent to abdouinal wall; appendoninal wall; appendix lay anteriorly in a mass of adhesions; was dissected off and amputated. Opening into caecum sewed with categut.
	9 2	n and over r Mc-
Pain over eutire abdonen at time of operation.	Dull pain over cæ-Extensive cum greally in- duration, creased after any ness and dernesson sure.	Dull pain between duhluess attacks; very acute cecum. Pain ove Burney's
Over ceeum.	Over	Over cæetum.
During at-Had severtackwhen al attacks patient during 1½ was in col-years.	Attacks during previous 3 months.	Slight attackslast ing a day or two for a month b e i or e operation.
During at-Ilad sever tackwhen al attace partient during lands was in col-years.	Qniescent stage.	During an attack.
Charity Hospitál. Dec. 4, 1893.	br. Humiston's Hospital, Dec. 6, 1893.	Residence, Dec. 13, 1893.
<u>Z</u>	ton's ton's ton's Humiston.  Humiston.  Dec. 6, stage.  1883.	Dr. I. A. Elson, Smithville, Onio.
Am.	Ger. 48 female.	Am. 21 male.
X. P.A.C.	M. A.	.: % .: %

## APPENDICITIS.—(CHRONIC CASES.)

Remarks.	8th day patient developed phiebitis of right leg which subsided in a few days. Wound entirely healed about four weeks after operation.	Ou April I temparature went up and pain returnad necessitating the introduction of the finger into the wound which was followed by an escape of pus. Wound healed in September.	Uninterrupted recovery; wound healed by first lirst Patient left hospital 30 days after operation.
Result.	<b>ಷ</b>	ಜೆ	ਲੰ
Appendix and concretions.	Appendix greatly thick- en ed with catarrhalcon- dition of mu- cous men- brane.	Appendix not found; no concretion.	Appendix bent at right and right and right and right and was impervious in distal portion. Gatarrhal condition of muchons members and right and ri
Operation.	ndistiuctiadur- ation; no dull-Appendix in adhesions ness. between pelvic wall burng attacks and eæcum. Ampu- had distinct tated and sewed with tumor and dull- eatgut. Tampon iodo- uess over eæ- form gauze.	Opened general abdom- final cavity. Found absess to outer and posterior side of ca- cum. Could not flud appendix and thought Appendix not lient at present stage to the extensive tear- ing of adhesions which ing of adhesions which ing search would have uccessitated. Tampon	Pain during attacks.  Pain during attacks.  Paine as attack in Tenderness and Appendix on auterior was impervable to the part of the painting and the state of the part of the
Objective symptoms.	Indistinctiaduration; no dull-Aness. During attacks had distinct tumor and dull-uess over cecum.	Induration aud duliness with great palu on sure.	Tenderness and resistance on deep pressure; no duliness.
Subjective symptoms.	Indistinctiaduration of dull-Anderness on deepDuring attacks pressure over ce-had distinct tumor and dull-tumor and dull-cum.	Great pain during	Pain during attacks. Since lasts attack in Solice lasts attack in Sept '93, has had continual tender-ontinual tender-signtest exertion.
Incision.	Over cæcum.	Over cæcum.	Over cæcum.
History of previous attacks.	3 severe attacks durlug,' 4 years.	7 attacks during last 6 or 7 years.	1st attack 9 yeans ago. 2d attack in Mar., 93. 3d attack Sept., 93: not able to do any work since.
Date and place of which operation.	During quiescent stage.	During severe attacks.	During qulescent stage.
Date and place of operation.	Dr. C. S. Hospital, Hospital, Atwater, Dec. 15, Onio.	Residence, March 14, 1894.	Dr. A. O. Lakeside Huntley, Hospital, V. Bloom- field, March 20, Ohio, 1894.
Nat., In cousul Date and age, tation place of with operation.	<u> </u>	Dr. J. P. Sawyer.	
		Am.	
No.	XIII.	XIV.	XV.

\$ <b>\$</b>	lly us sus: ay	an os-
Uninterrupted re- covery: left hos- pital May £6.	Patient steadily improving: Sistems still discharges: left hospital May 26.	Patient made an uninterrupted re- covery; left hos- pital May 29.
Uuinterrupti covery: left pital May 26	ont s fing disc spit	ent n rrup i: le lay 2
inte very tal M	Patic III It bo	Patic intervery tal \( \)
		202
~	쪄	Ä.
Omentum and cæcum Appendix ha mass of adhesions. Greatly always of cacum and cacum and cocluded at its inward behind ileo-Coals greatly cated and sewed with the fammation.	Appendix in we parts. Dis- al portion bout one inch bout one inch bickened, ul- erated and ull of pus. Approximal option about one inch bout one inch bickened, ull of pus. Approximal distriction about the proximal approximative premity open.	Incision through skin and external oblique parallel to fibres of external oblique parallel to fibres and franchar and perle greatly thick toneum parallel to skin ened, with frichty, a deherent to creeum by dense adnessions. Amputated and served with catture, and the creeum by dense adnessions. Amputated and served with catture, Layers and the catture, Layers error and the catture.
Appendix greatly swollen aud om Dite tell celluded at life base. Dass greatly thickened be considered to the construction of the construction of the construction of the construction.	pend arts po po cone gr gr gr fpu fpu on f	Appendix ened, with ened, with afarrhal co afarrhal co fition of m cous mem- brane.
Appendix greatly swollen and com n let el. lo cocluded at it. Coats greatly thickened by thickened by chronic in-flammation.	Appendix ii two parts. Dis tal portion about one including. greatly directed, all of pus. full of pus. Approxima Approxima about one pus. a full of pus. a f	AL gerea encertain ditio
cæcum resions. red at er sur- and x- d and lio- Ampu- d with n gauze	u to lay sur- sur- very be- dhe- and g in	Incision through skin and external oblique parallel to fibres of external oblique parallel to its fibres; and fuernal oblique parallel to its fibres; and fransversalis and perifoneum parallel to skin hetsion.  Appendix lay antedratives, addresser, addre
cæc hesidated ated fer n an d i Ar Au a i a i	dow hich uter Se um ston ton ve a ng thin Ga	oblices of dividual plants of di
and f ad situ unc unc unc ecun phyan phyan phyan felin	ula wilk wilk wilk wilk woo cum. caec caec operad difficultiensi nalmi yvery wery.	n through skin xternal oblique; for fibres of ex- oblique; divided its fibres; and resalis and peri- paralle to skin n. n. deferent to by dense adhe- Amputated and with cattur. Lay bedominal wound d with cattur. Lay
unn less o daix	l fist pend pend pend pend pend pend pend pend	on t exter- el to obli- al o its its its on. on. on. on. on. on. on. obli- its obli- on. obli- obli- obli- obli- obli- obli- obli- its its its its obli- obli- its obli- obli- its obli- o
Omentum and cæcum in a mass of adhesions. Appendix situated at lower and under surface of cæcum and xinward behind inward behind ilectation with the catgut. Iodoform gauze tampon.	aced apply and a solid	Incision through skin and external oblique; divided internal oblique; divided internal oblique; divided internal oblique; divided internal oblique; and transversalis and peritorism, and perdix lay anternixly; adherent to creeum by dense adherent by dense adherent by dense adherent by dense adherent of sions. Amputated and served with cattur, Lay ers of abdominal wound stitched with cattur.
Order Order	Gleatrices and Traced fistula down to Appendix in fistula remain-the appendix which lay two parts. Dishift from opera-behind and to outer sur-faal portion victor. Sewedabout one tuch victors. Fistula operains in execum with long, greatly closes and open scatgut. Operation very thickened, ulwith a slight dis-long and difficult be-cerated and charge of pus cause of extensive adhe-full of pus. about every six sions remaining and Approximal weeks. Indura-involving everything in portion about trinnaudatulinesa solid mass. Gauze 14 inch and extension reacal region. Tampon.	Segger Frake
Extensive induration and duration and ullness reaching to McBurney's point.	s a second control of the control of	No dullness, ould feel whs sened to be a thickened appendix.
tensi ratio ness to M	trice la	dul d fe med hick pper
Extensive induction and duration and duliness reaching to McBurney's point.	Cica finstul finst tion tion close with char char abou week	Nc Coull see
		Tenderuess during Could feel what attacks. No pain at seemed to be a thinge of operation.
te has cons in in region um so tha unable to any work.	Constant tender- ness and pain; quite severe just before disonarge of pus.	ss du To pa
has in remarkable no has	itant terms and persection of pus.	erue is. D
flate has constantial in region of caecum so that he is unable to do any work.	Cons nes quit deuit befor	Tenderuess during trtacks. No pain a time of operation.
<u></u>	i i	
Over cæcum.	Over	Over cæcum.
ks ars.	ks gra of 17 s. ted 90.	oks ng 1 of ears.
Attacks during two years.	Attacks during a period of 17 years. Operated in 1890.	Attacks during period of two years.
		1
During 1 attacl	During uiescen stage.	During ruiescen stage.
Dr an 8	gui, gui	of the state of th
side ital, 26,	side ital,	side ital,
Lakeside Hospital, Dwing April 26, an attack. 1894.	Lakeside During Hospital, quiescent May 2, 1894, stage.	Lakeside Hospital, May 3, 1891.
-		A. J.
Dr. J. H. Lueke.	Patient a resident of Cleveland.	Dr. C. A. Hospital, quiescent Hamaun. May 3, 1891, stage.
Ger. 30	Am. 27 male.	Ger.
* XVI. W. S.	XVII.	XVIII.
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### APPENDICITIS—(Acute Cases.)

Remarks.	U ni n terrupted regovery. Wound entirely Beside in about seven weeks.	Uninterrupted recovery. Wound healed by first interdion: uo further trouble, and now in excellent health.	Uninterrupted recovery. Wound discarged provided fuller, but healed entirely in about two months.
Result.	짪	ď	ä
Appendix and concretion.	Appeudix gaugrenous andpeforated about middle: no concretion	Appendix 4% Inches long. Contained a small concretion.	Appendix large and gan-large and gan-grenous; perforated uear base; no concretion.
Operation.	Found abseess cou- General abdonni-tenderness and pairs; annutated ap-grang renous localized on third Genema and dis-grangrenous that filabout inidules; day.  Tampon of gauze.  Found and any statement of the concretion functional and any statement and any statemen	Paiu behind crest material: did uot present in the sent appearances of in-Appendix 4½ over fiammation: ampurated inches loug. In the sent of item exteuding Dullness over fiammation: ampurated inches loug. In the sent of th	Found abscess between caecum and pel-tween caecum and pel-dulness and tu-several ounces of pus, and grand and grand pel-to-dulness and tu-several ounces of pus, large and gancount localized outgion of caecum; for surface; amputated, forated uear great pain onbut could only drawbase; no conforted to breasher lightly with cretion. Sutures of catgut, as base was so softened. Tampon of gauze.
Objective symptoms.	Tympanitic tenderness and dulliness over czeum and dis- tiuctinduration.	Duliness over cæcum. Nothing to be felt.	Tym panitic; duliness and induration in region of execum; great pain on pressure.
Subjective symptoms.	General abdomi- nal pain, becoming localized on third day.	Over Paiu behind crest of fieum exteuding upward toward kid-cæcum, ney and liver.	General pain, be- coming localized ou second day,
Incision.	Over cæcum.	Over cæcum.	Over cæcum.
History of previous Incision. attacks.	None.	. None.	None.
Place and Stage in date of which operation.	Acute. 6 days.	Acute.	Acute.
Place and date of operatiou.	Resideuce, Juue 16. 1893.	Residence, June 18, 1893,	Residence, July 1, 1893.
Nat., Iu consul- Place and age, tation date of with operatiou.	Dr. H. Wilson, Oberlin,	Drs. J. E. Darby, G. C. Ashmun, and H. K. Cushing.	Dr. H. Wilson, Oberlin, Ohlo.
Nat., age, sex.	Am.	Am.	Am.
No.	N1X.	XX.	E. B.

Wound discharg ed profusely. Pa- tient recovered completely.	Uninterrupted recovery. Left hospital 31 days after operation.	Profuse dis- charge, Patfent allowed to get be to. Went home of Dec. Van. Wound en- tirely healed in Feb.
lisch eely. y.	Uninterrupt recovery. Le hospital 31 da after operation.	se Patic to get of D of D Nome Kound
nd cofus	int ery. tal ope	Profuse arged to iddle (ddle on my
Wound dis ed profusel; tient rec completely.	Uninterecovery. hospital	Prof charge allowe middl Went Jan. Jen. Feb.
	ਮੁ     ਨੁਸ਼ੁਲ੍ਹ	
<u> </u>		
Appendix angrenous indperforated vo concretton	Cæcnm and omentum in mass of adhesions Appendix Containing appendix, Appendix and a few drachms of de stroyed, pus. Tissues were so dis (nily a few organizad that opening sirreds remaining eaceum could nothing. No conbe closed with sutures, cretion.	ntaining % hppendix on Appendix on Appendix of Appendix of Appendix of Appendix of sew Stumpand perforated test of the four of
per gre- erfo nicre	n srel No No.	per perfo perfo
A p nd p o c o cc	Apes especial de la	A p
nng om g rin	Cæenm and omentum n mass of adhesions notating appendix, Appenna, Tissues were so dis Only a granized that opening shreds into cæeum could nothig.  Be closed with sutures, cretion, fanze tampon.	on of the desired of
ontaining s of pus. ore from could not iodoform	Cæcnm and omentum utaining appendix, untaining appendix, at a few drachins of sall size, that opening ganized that opening to cæcum could not elesed with sutures, anze tampon.	Abseess containing 1/2, int pus, Appendix on iterior sufface of ecum. Amputated of could not sew stump teause tissues of curse, Gauze Inpon.
cont core cou se.	a on a adjanta application and a application and a second	containin Appendi snrface Amputi of sew sti sues tore es. Ga
ounc ounc mand e bas	Cæenn and o in mass of a a containing a pan a few dramons. Tissues we muse Tissues we contained that into cæenn of the closed with danze tampon.	s co. A su
sscessing in the second management	eenn afni a fe Triss nize cæ cæ lose ze ts	scess pus pus mior mior mior mior mior mior mior mior
Moderate tympantities. Slight Abseess containing resistance in re-several ounces of pus. Appendix ceed fromgan grade on second day. Most marked cæedm and could notaind perforated above floorand reach the base.  No concretion on pressure.	Taken with pain in mass of adhesions and probled region. Induration and containing appendix, Appendix	Abseess containing % pint pus. Appendix on path, becoming dulliurss over excum. Amputately an green our advectorem. Greathic could not sew stumpland performed are operation at pain on pres-because tissues store un-No concretion. Calculate and superformed der sutures. Gauze tampon.
tym- light n re- cum- rred rred Pain	n and on over	n and over hread pres
s.	uess e	
Moderate t panities. Sill resistance in fon of cæc Most mar above ileo- bilical line. F	idur; ideri essni eum,	dura lines cum, n n
Day Day Day Day Day Mo	Taken with pain Induration More or less soveness tenderness over entire abdomen pressnre focalized over cæceum.	General abdomin. Induratial path, becoming duliness focalized on day be-execum. Fore operation at pain on McBurney's point.
focal day,	pail gion enes ome cam	omin pring sy be int.
ain]	rith Il ressor ssor abda y be	abdc beco n da atfou s pol
ralp	n willies	ral n. h
fene d or	Taken with pain numblical region. Over or less soreness fer entire abdomen ain finally became and finally became calized over cannot must be the first cannot be the f	Hene paliza saliza of Bur
<u>.</u>		222
Over	Over cæcum.	Over cæcum.
<u> </u>	<u> </u>	0
None.	None.	None.
z	Z	Z
Acute.	Acute. 18 days.	ceute.
Act 8 dt	Acute. 18 days.	Acute. 6 days
Residence, Ang. 24. 1893.	Charity Hospital, Aug. 25, 1893.	Lakeside Hospital, Oct. 20, 1893,
		Ho Q
Dr. H. Wilson, Oberlin,	rs. A. O. thence and G. C. shmun.	Jr. G. A.
Dr. H. Wilson, Oberlin, Obio.	Am. Drs. A. O. Spence 21 and G. C. male. Ashmun.	Lakeside Dr. G. A. Hospital, Orwig. Oct. 20, 1893.
Am. 13 female.	1 m.	
		(Lei
A. L.	ХХІП.	XXIV.
7	× ÷	×

### APPENDICITIS.—(Acute CASES.)

Remarks.	Uninterrupted re-	Free discharge for three weeks, patient left hospital eight weeks after operation; entirely healed fourteen weeks after operation; after operation. No induration or tenderness remaining.	Profuse suppura- tion. A pril is re- moved % quart serum from left pleural cavity. Patient steadily improving, and ill sinus still dis- charges slightly.
Result	滋	盛	<u> ಜ</u> ೆ
Appendix and Goneretion.	Appendixgangrenous and entirely detached. No concretion.	Appendix not found. No concretion.	Appendix ml- cerated and perforated about the middle. No concretion.
Operation.	Opened abseesscontain-ing Name abseesscontain ing % pint pus. During ing Name local-iness and indur-foated out, having be-grenous and ized on third day atton over cs- come entirely detach entirely detach cum. Tender ed. Opening in cæcum fached. No not found.	Indurated mass Abscess containing sev- General pain: local- and dullness eral ounces of pus Appendix not ized on second day. Over ceum. Appendix not found. To und. No Pain very acute. Gauze tampon.	ites. Extensive taining small amount Appendix induration and of pus. Appendix to dullness.  Lear outer surface of cap per for a red about the forly and up-Amputated and about the lorly and tempted sewing wird tempted sewing with concretion.  Catgut, but tissues tore under surface.  Catgut, but tissues tore under surface.
Objective symptoms.	Distinct dull- ness and indur- ation over cæ- cum. Tender on pressure.	Indurated mass and dullness over eæcum. Pain very acute.	
Subjective symptoms.	Cramps in abdo-Distinct dull- ine; became local- ness and indu- tized on third day atton over cen- to region of caecum. Tender on pressure.	General pain; local- ized on secoud day.	General abdominal pain, becoming localized on second day.
Incision.	Over cæcum.	Over cæcum.	Over cæcum.
History of previous Incision. attacks.	None.	Хопе.	None.
Stage in which operated.	Acute. 10 days.	Acute.  8 days.	Acute. 20 days.
Place and date of which operation, operated.	Mn. Dr. F. W. Residence,  Upson. Jan. 10.  Conneaut, 1894. male. Onio.	Lakeside Dr. A. J. Hospital, Cook. Jan. 19, 1894.	Residence. Feb. 1, 1894.
In con- sultation with	Dr. F. W. Residen Upson. Jan. 10 Conneaut., 1894. Onio.	Dr. A. J.	Dr. P. H. Sawyer.
Nat., age.		Irish. 17 male.	Am. 19
No.	XXV.	XXVI.	Б. Э

Wound healed in seven weeks, then opened and continued discharging. Dilated sinus and removed a courertion size of a pea; wound closed again and patient since remained perfectly well.	Uninterrupted recovery. Small point of granulation remaining 1 m on th after Operated by Dr. Nevison.	Uninterrupted re- recovery: left hospital May 30.
ಜ	ಜೆ	æi
Appendix not found.	Appendix not found.	Only a few shreds of appendix remaining.
Extensive dull Abseess containing %Appendix not ness and indur- pint of pus extending found.  Batiou over ce- behind crecum and and ex- bushing its way upcann; localized on tending to ward toward liver.  Becond day.  A C Burney's line artery could be point. Great felt pulsating at bottenderness on tom of cavity. Tampon No concretion.	Appendanced indural dominal wall. Abso so that and dull-between crecum and ness over eapelvic wall and dissection. Tender ing post riotly. Could not find appendix.  Tampon of gauze.	Abscess behind cacum shreds of apdissecting downward pendix reduliness extoward pelvis and also maining, refending to Mc upward toward liver.  Burney's point, eseed opening in cacum with catgut.  Gauze tampon.  No concretion.
Extensive dull-Aness and induration over carling and induration of the following and expensive following control of the following follow	General abdominal fron and dull-bain; localized on ness over eæsecond day.	duration and nliness ex- anding to Mc urney's point.
General abdominal pain: localized on second day.	General abdomin pain: localized o second day.	General abdominal duliness pain, becoming tending tocalized on third Burney say.
Over cæcum.	Over cæcum.	Over eweum.
None.	None.	None.
Acute. 5 days.	Acute. 8 days.	Acute.
Lakeside Dr. F. H. Hospital, Acker, Feb. 10, 15	Residence, March 27, 1894.	Dr. J. E. Hospital, Darby. May 3, 1894.
	Ger. Baker Bar Bar Bar Bar Bar Bar Bar Bar Bar Ba	Dr. J. E. Darby.
Ger. 23 male.	Ger. 12 emale.	Eng. 43 fenale.
XXVIII Ger. J. Y. male.	XXXXXX	XXX.

### REMARKS ON APPENDICITIS.

The foregoing tables include 30 operations for appendicitis, with one death. The cause of death being from general infection with metastatic abscess of the parotid. 18 cases were chronic and 12 acute. 7 of the chronic cases were operated during an attack, and 11 in the quiesent stage. 3 cases had been previously operated during an attack, when, owing to their condition, it was not thought wise to prolong the operation, and the appendix was not found. In these cases, a sinus remaining, a second operation was performed and the appendix removed.

The incision was made over the caecum in 28 cases, in one case through the linia semilunaris, and in the other through the median line. In one case the layers of the abdominal muscles were divided parallel to their fibres.

In three cases concretions were found at the time of the operation, and in a fourth case a concretion was removed from a sinus, remaining several weeks after the operation. In five cases the appendix was not found, in eleven the mucous membrane was ulcerated or there were strictures remaining from previous ulcerations. In four cases there was a catarrahal condition of the mucous membrane, in five the appendix was gangrenous, and the opening in the caecum could not be closed with sutures. In four cases nothing remained of the appendix but a few shreds. In one case the appendix presented only slight evidences of inflammation, but was unusually long and contained a concertion.

In seven cases the abdomen was closed without drainage; in the remaining cases tampons of iodoform gauze were used. Two cases still have sinuses, which give little trouble except from time to time when they close superficially, and there is a slight retention of pus. In three cases slight hernia have occurred since the operation.

The following cases are reviewed somewhat in detail in order to call attention to some of the more interesting facts.

Cases II and IV. Operations had been performed several

months previous, when, owing to the condition of the patient, it was not thought best to prolong the operation, and the appendix was not found. In these cases sinuses remained which gave little trouble, excepting when the opening became occluded, and there would be retention of secretion. At the secondary operation the appendix was found, and the opening into the caecum closed. Both cases made complete recoveries.

CASE IX. Was taken sick June 11, 1893, with typical symptoms of appendicitis. Dr. Allen was called in consultation June 18th. The acute symptoms had at that time subsided and an operation was not July 28, had second attack. Was sick in bed about two weeks. During this time Dr. Allen was called a second time, and advised an operation as soon as the acute symptoms should subside. The third attack occurred September 3, and the patient was seen for the third time, and operation strongly advised. This, however, was not permitted until after the seventh attack, which occurred November 28, and on December 2 the operation was performed with antiseptic precautions. The cæcum and omentum were in a mass of adhesions, and only a few shreds of the appendix could be found. The opening into the cæcum was sewed with cat-gut, and the cavity packed with iodoform gauze. The patient seemingly did well for about a week, although there was profuse discharge. On December 8 swelling of the left parotid gland was noticed, accompanied by a rise of temperature, The swelling increasing, an incision was made on December 10. No abscess had as yet formed, but minute points of suppuration could be seen throughout the gland. The patient gradually failed and died one week later.

CASE X In July 1892, had first attack, with localized symptoms. September, 1892, second attack. Numerous slight attacks occurred from four to six weeks apart until July 8, 1893, when the patient was confined to the house about four weeks. In October, 1893, first saw the patient in consultation, and advised an operation at once. A few days later the patient was seen by another surgeon of

the city, who thought the trouble was not appendicitis, and that it could be cured by a slight rectal operation. His advice was followed and the patient was treated for several weeks at a hospital in the city, and was discharged November 27, and told that he was cured. although, on his return home it became evident that his condition was one of extreme gravity. On November 30, patient was taken with severe pain, Dr. Stevenson was called and found him in profound collapse. Dr. Orwig also saw the patient in consultation, but he did not rally sufficiently for several days to even consider the possibility of an operation. On December 4, Dr. Allen was again called, and found the patient suffering extreme general abdominal pain with tympanites, no localized tenderness, and presenting the appearances of one suffering from intestinal obstruction. The family urged an operation at all hazards, and the patient was removed to Charity Hospital. Having seen the patient previously and having made a diagnosis of appendicitis, the doctor felt so positive of the cause of the trouble, that the incision was made over the cæcum. Some adhesions were found between the omentum and intestines. The appendix was 4½ inches long, and wrapped around the cæcum just above the entrance of the ileum, thus forming an occlusion of the bowel. The appendix was detached, amputated, and the opening closed with cat-gut.

The operation was rapidly performed, owing to the weak condition of the patient, and stimulants were given during the operation. For about a week after the operation the temperature was sub-normal, and the patient required most vigorous stimulation. The tympanites did not entirely disappear until about the sixth day. The patient had two relapses owing to indiscretions in diet. He, however, made a good recovery, and is now entirely well, with the exception of a slight hernia probably due to distention caused by extreme tympanites.

CASE XVII. Had first attack of appendicitis in 1877, and during the years following until 1890 had attacks varying in frequency from three weeks to six months. Was operated on by Dr. Allen, February 8, 1890. A circumscribed abscess was opened and drained, but the appendix could not be found. The patient improved but a sinus remained, which from time to time would close, causing retention of pus with fever and localized tenderness. This was relieved as soon as the discharge would take place. A second operation was performed May 2, 1894. The sinus was followed down to the appendix, which lay posterior and to the outer surface of the cæcum. The operation was long and exceedingly difficult, owing to the dense cicatricial tissue surrounding the cæcum. A small sinus still remains but the discharge is considerably lessened, and there have been no relapses.

Case XX. Was taken sick June 12, 1893. Had slight abdominal pain which became localized June 14. Dr. Allen saw patient June 17. There was slight tenderness over cæcum. Temp. 102. Pulse ranging from 112 to 120. The following day the general condition being much worse it was decided to operate. The appendix was  $4\frac{1}{2}$  inches long, and curved backward behind the cæcum. It did not present appearances of inflammation, but was filled with a mucoid material, and contained a small concretion. The abdominal wound was closed without drainage. All symptoms abated at once. The wound healed by first intention, and the patient is entirely well.

CASE XXV. This case was peculiar owing to the complete detachment of the appendix, which was floating free in the abscess cavity, and washed out during the irrigation.

# OPERATIONS FOR SALPINGITIS AND OÖPHORITIS.

urks.	lutopsy show- ed septic peri- tonitis.	Patient has had excellent health since operation.	re-re-
Remarks	Autopsy show- ed septic peri- tonitis.	Patient I had excell health sli operation.	Complete covery.
Result.	Death on 8th day from peritonitis.	<u> </u>	<b>x</b>
Irrigation and drainage.	No irrigation, no drainage.	Irrigation, no drainage.	Irrigation. glass drainage tube.
After treatment.	Patient did well for 4 days then temperature and pulse gradually wort up, and death followed on 8th day. There were movements of bowels on 3d, 4th and 6th days, no local signs of peritonitis.	Sutures removed on 7th day, Had no bad symp- toms of any kind: left hospital August 10th.	Tube removed on 3d day, patient did well artempted to hely herself by reaching to floor and lifting heavy wash bowl; taken with severe abdominal pain, temperature well to july; pulse 130; was in bad shape for a couple of days; gradually improved; wound entirely healed 6 weeks after poperation.
Operation.	tegilly; menstruited at the tegillar abayas had severe pain at monthly periods, during lastyear and a half been unable and a half been unable and a half been unable duration and extreme removed and pedicles went up, and death few weeks then around duration and extreme removed and pedicles went up, and death for a time; in Dec. '92, lenderness on both ligated with silk; labom-followed on 8th day. Dr. Upson opened an sides of uterus; no inal wound closed with light about continues more appearance in Dec. '92, lenderness on both ligated with silk; labom-followed on 8th day. In a sides of uterus; no inal wound closed with of bowels on 3d, 4th and a sides of peritonitis. In decent periods which are at periods which	Tubes enlarged; ovaries in Slight-Adhesions; were rinn stand and pedicles Sutures removed and pedicles Sutures removed on 7th Irrigation, ligared with silt; pedi-Sutures removed on 7th Irrigation, lig tures were anchored toms of any kind: left with eart gut; abdominal hospital August 10th, drainage, worm gut sutures.	Removed enlarged tubes and ovaries; tubes filed with pus, and ruptured while rearing from their addhesions; ovaries inflamed and in a mass of a d he sion s; pedicles ligated with silk.
Examination	General healthpoor; in- duration and extreme tenderness on both sides of uterus; no fever.	Enlarged tubes and ten- der ovaries to be felt; uterus in normal posi- tion.	Indurations on both sides of interus; extremed ty fender to slightest pressure.
History of patient.	Healthy; menstruited at 14; regular; always had severe pain at monthly periods; during last year and a balf been unable and a balf been unable for do any work; in bed a General healthpoor; in- ed and adherent; were and pulse gradually irrigation, for a time; in Dec. '92, tenderness on both ligated with silk; adom- followed on 8th day. Dr. Upson opened an sides of uterus; no final wound closed with flasted with a bowless through vagina; fever. silk worm gut sutures, of bowels on 3d, 4th discharged two months; and of bowels on 3d, 4th signs of peritonitis.	Healthy; menstruated at 14, regular; when 16 yrs. of age strained herself while lifting, and since then has had svere pain Enlarged tubes and tenate never pregnant; uterus in normal postpands occur every 3 fron. weeks; great pain; uuable to attend to household duties.	Healthy; menstruated at 18, regular; aborted at almout 6th week on May Indurations on both 30, 34; developed pelvic sides of inferus; experitonitis; pain continued and partient unal slightest pressure. Bit to get around; enfer-ed hospital June 29.
Date and place of operatiou.	Lakeside Hospital, June 21, 1893.	Patient Lakeside resident Hospital, of July 3, leveland. 1893.	Patient Charity resident Hospital, cf July 11, leveland. 1893.
In consultation with	Dr. F. W. Lakeside Upson, Hospital, Conneaut, June 21, Ohio. 1893.	Patient resident of Cleveland.	Patieut resident rf Cleveland.
Nat., age, social condi- tion.	Am. 42 single.	Ger. 21 mar.	Am. 25 single.
No.	I B. P.	n ë	M. T.

Patient in excellent health.	Patient now in good health.	Operated by Pr. Pozzi, at a clinic.
<b>¤</b>	<b>x</b>	es
No irrigation, no drainage.	No irrigation, no drainage.	No irrigation; Mikulicz tampon.
Stitches removed on Sh day, wound healed by first intention; left hospital August 22.	Patient developed severe cystitis; slow convalencemes; was extendingly nervous and did not entirely recover until nearly a para frer the operation.	Tampon removed on 5th day; made uninter- rupted recovery; left hospital November 29.
Removed tubes and ovarles, which were inflamed: pedicles ligated wou'th silk; abdominal wound closed with silk-worm gut sutures.	Tubes inflamed; ovaries Patient developed secystic degenerated and vere cystifis; slow conadherent; were-removed valescence; was examt be self cless ligated ceedingly nervous and with silk; abdominal did not entirely rewound closed with silk.  Wound sutures.	Tubes and ovaries in dense adhesions; pedices ligated with silk, Tampon removed on 5th irrigation; and removed with can-day; made unintertery; abdominal cavity rupted recovery; left profected from infection hospital November 29. Mikulicz pads.
Pender ovaries to be felt; uterus normal.	Enlargements to be felton both sides of uterus: more fender on left side.	Indurated masses on both sides of uterus: very tender.
Always delicate; menstructed at 14; irregular and pain; periods every two or three weeks; northead at 14; irregular ies, which were inflam. Stitches removed on irrigation, two or three weeks; northead at 15; northead at 15	Healthy; menstruated at IT; always irregular and search in three years ago took sold Enlargements to be felt adherent; were removed Valescence; was exsince had almost conmore tender on left with salts; abdominal did not entirely remuch worse during perimental pain in pelvis, side.  wound closed with silk: abdominal did not entirely reworm to bed a good share of the tine.	Healthy; menstruated at lai tregular; pain; produced abortion on herself in March, '88, and again in Argust, '88, portion of placenta retained and did not come away both sides of utens; ntil December, '88; had fever and pelvic pain; ever and pelvic pain; was confined to bed a good share of time.
Lakeside Hospital, July 24,	Charity Hospital, July 29, 1893.	Charity Hospital, Sept. 30, 1893.
Patient from Copopa, Ohio.	Dr. G. S. Lanter- man, Bellevue, Ohio.	Am. Patient resident 23 of mar. Cleveland.
Am. 31 mar.	Am. 24 single.	Аш. 23 шат.
IV. E. H.	. y . y.	VI. K. C.

## OPERATIONS FOR SALPINGITIS ÄND OOPHORITIS,

Remarks.	Heard from patient one gear after operation, in excellent health.	Saw patient in July 194, in ex e el l'ent health.	In June '94 had a flow resembling menstrual dis ch arge; patient is able foo he around but still has paln.
Result.	ಜೆ	ద	ž
Irrigation aud drainage.	No irrigation, no drainage.	Irrigation; Mikulicz tampon.	Irvigation; glass drainage tube.
After treatment.	Had hysterical attack no thin day and threw lerself around the bed but caused no larm to irrigation, wound; temperature irrigation, had several nerv, ous attacks but grad- ually became I ess severe and ceased en- firely.	In Patient in severe shock reat close of operation reat did not finily react and did not finily react and day. bowels moved ay, bowels moved if without cathartics on third day; tampon re- sed moved ou fourth day; made a rapid recovery tampon. ted without any complica-	Syringed tube frequent.  It gave typorous stim- ulation; on third day tem p erat u re an d bulse went up, intro- duced finger into pelvis and washed out quantities of broken down clots; patient improved slowly; left hospital Feb. 2, 94.
Operation.	Ovaries and tubes in adhesions, ovaries cystic degenerated; pedicles ligated with silk and stumps cau terized; closed wound with silk worm gut sutures.	Ovaries and tubes in dense adhesious; in residential administration of the signoid was closely adherent and was opened; opening immediately dishifected and closed with cat-gnt sutures; pedicles were ligated with silk.	Deuse adhesions around tubes and ovaries which were removed and pedicles ligared with sike; adhesions continued to labed and glass drainage tube was carried down to pelvis.
Examination.	n der darge-		Uterus somewhat en- larged; Indnrated masses at sides.
History of patient.	Healthy; menstruated at year then commenced having pain, more self-xamination nnder vere at periods; during ether showed enlarged as 3 years been confined to be been confined to the confined to be the confined to confine the confin	Healthy; meustruated at 12, regular; two clind-red, no trouble following confinements; mis canfie men and followed by pelyfe ly tender masses at inflammation; had fever sides of uterus, and great pain; been confined to bed most of time.	Healthy; menstruated at 13, regular but always had pain; married at 22; first child at 24; missearied at fifth month at 29; second child at 31; Uterus at 29; second child at 31; Uterus ard part and patient was twice corretted. Had great pain at periods and was confined to bed most of time.
Place and date of operation.	Charity Hospital, Oct. 25, 1893.	Charity Hospital, Oct. 31, 1893.	Dr. G. E. Lakeside Webster, Hospital, ingsville, Nov. 14, Ohio. 1883.
In consultation	Amer. Dr. T. W. 26 Stenben- sing. ville, Ohio.	Amer. Lanter- man, 29 man, mar. Bellevne, Onto.	
Nat., age, social condi- tion.	Amer. 26 sing.	Ашег. 29 mar.	Amer. 38 mar.
No.	VII.	VIII.	1X. E. Y. S.

Autopsy showed an accumulation of blood in pelVis.	Patient slowly but steadily improving.	Patient made complete recovery. Case given in detail below.
	<u></u>	
Irrigation, no drainage.	No irrigation no drainage.	Irrigation Mikulicz tampou.
	ubes and ovaries in-Had attack of brondand were removed chitis during second with silk; fundus of tennal wound with hard to take much silk-worm gut.	Second day noticed swelling of left parotid; 3d day well marked erysip e la strigatiou: around left ear; tamed on 5th day; infammation extended over entire face; patient had high leyer with delerium; abdominal wound at no time showed any symptoms of infection.
Uterus and tubes in aldense mass of adhesions; tubes and ovaries removed with great difficulty; irrigated and closed abdomen with silk worm gut sutures.		lealthy; menstruated at 12, regular, no pain; six sears ago strained herses get while lifting, since Induration at sides of larged and in mass of and loses considerable pressure.  Substant of the larged and in mass of and loses considerable pressure.  Blood; steadily getting worse until now unable to do any work.
bense induration my definite to be felt; very tender.  Therew prolapsed tendereness on both sides; of uterus.		Induration at sides of uterus; very tender on pressure.
Healthy; menstruated at Tr. from the pain; in a patient very weak after married at 24; never Dense in duration dense mass of adhes operation; had great pregnant; since marriand uterns; noth that patient are of lar very tender. The patient was unspread and the patient was unspreaded at the regular; in the patient was unspeciols, so severe of lar very tender. The patient was unspeciols as severe of lar very tender. The patient was unspeciols and duties.  Never healthy; menstruated at 16; regular; menstruated at 16; regular; mas four children, the source of large of pression both sides; with in last two years ago: Uterus prolapsed tendary dominal wound with nothing the charge of purs at times.		Healthy; menstrnated at 12, regular, no pain; six years ago strained herself while litting, since induration at sides of then has pain at periods uterus, very tender on all olses considerable pressure. Worse until now unable to do any work.
	Lakeside Hospital, 'Nov. 23,	Charity Hospital, Jan. 13, 1894.
Color'd Patient Lakeside resident Hospital, 30 of Aug. 16, mar. Cleveland. 1893.	Dr. J. A. Dickson, Ashtabula, Ohio.	Dr. G. T. Gregg, Sullivan, Ohio.
	Amer. 36	Ger. 35 single.
N. R. C. B.	XI. E. S.	XII.

## OPERATIONS FOR SALPINGITIS AND OÖPHORITIS.

Remarks.	Patient in excellent in inealth.	Complete recovery.	Patient had several ner- vous attacks but slowly improved.
Result.	㎡.	ж.	Ŗ.
Irrigation and drainage.	Irrigation, gauze tampon.	No irrigation, no drainage,	Irrigation; Mikulicz tampon.
After treatment.	Tampon removed on 5th day; had no temporature after operation; made an uninterrupted recovery.	Made an uninterrupted recovery without any complication.	Extremely nervous and hard to manage; tampon removed on 4th day; wound healed rapidly; went home April 3.
Operation.	Opened into an abseess and distended; on left side; right tube Tampon removed on and dult and ovary enlarged and 5th day; had no temower por inflamed, were remove perature after operately tender, ed; packed wound with tion; made an unintergauze strips.	Ovaries cystic degenerated, tubes inflamed, were removed and pediaded else figated with silk; recovery without any abdominal wound closed complication.  With silk worm gut	Free serum in abdominal cavity; entire periton-cavity; entire prefiton-white bodies size of a hard to manage; tampin head; ovaries and pon removed on 4th Mikulicz Infose, inflamed and day; wound healed adherent; removed and rapidly; went home pedicles ligated with April 3.
Examination.	distended; n and dull- r lower por- eniely tender.		Patient very nervous be felt distinctly.
History of patient.	Healthy; menstrnated at 12, regular; married at 14; 18; child at 17; had ago; had 3 miscarriages, facilitat, twins 7 years ago; had 3 miscarriages, the last hat her last her	Heaithy; menstruated at 11, regular; married at 16; child at 17; had miscarriage at 3d month in Jan. '33, never fully recovered; had discharge Induration at sides of from nerus; Dr. Burdick uterus; more extentive unprovement; not able to attend to honschold duties; slightest extraction brings on	Healthy; menstruated at 15, never regular, had great pain; married at 19; 1st child at 22; 2d child at 25; 2d child at 35; insearried patient very nervous in Nov. '92; never so and tender; nothing to had attack severe pain in pelvis, thought it no pelvis, thought it came from over exertion; unable to attend to
In con-Place and sultation date of with operation.	Vr. C. S. Residence, Ward, Feb. 2, Varren, 1894. Ohio.	Lakeside Dr. H. J. Hospitat, Burdick. Feb. 6, 1894.	Lakeside Hospital, Feb. 23. 1894.
	Am. Dr. C. S. Ward, 30 Warren, mar. Ohio.	Dr. H. J. Burdick.	Patient from Elyria, Onio.
Nat., age, social condi- tion.	Am. 30	Am. 23 mar.	Am. 28 mar.
No.	М. 4.	XIV.	XV.

In Feb., '94, one of slik ligatures was discharged through sinus;patient e u t ir e Iy healed.  Case given in detail below.	Heard from patient in Aug., '94, was slowly but steadily improving, only small small remaining.	Made com- plete recovery.
섪	ಜ	ಜೆ .
Irrigation, Mikulicz tampon.	Irrigation, no drainage.	extreme did not lrrigation, nuti fol- ad severe g conval- hospital tampon.
Tampon removed on 3d day; patient made rapid recovery.	few days then developed abserss around pedicles, disclarged through abdomnal region, wound; patient had rise of temperature from time to time with extreme pelvic pain; days lst dilated sinus and removed silk ligature from pedicle; patient slowly improved.	in and iact u lay; h durin; ; left
considerable free pus escaped; tubes were about the size of bananas, and had ruptured Tampon removed on 3d ation; ovaries emlarged; day; patient made ation; ovaries emlarged; day; patient made Mikulicz tubes and ovaries removed and poeticles in ove d and poeticles in the over the and poeticles in the case of th	Small fibroid in uterus; tubes and ovaries infamed and bound by adhesions; were removed and pedicles ligated with silk; abdominal wound closed with silk wound closed with silk	Tubes and ovaries in a Patient in most dense mass of ad- shock and hesions; ligated pedicles fully react with silk; torn adhesions lowing day; bled profusely, and were cystifis durit controled by a Mikulicz escence; left tampon tightiy packed.
Abdomen tympanitic: free fluid in abdominal cavity; nothing could be distinctly felt.	Uterus enlarged ; indurations at sides; very tender.	Indurated masses at sides of uterus, more painful on right side.
Healthy; never pregnant:    Healthy; never pregnant:   Con	Always delicate; men- structed at 13, regular, pain; married at 21: 3 children, aged 10, 12 and 14 yrs, in uniscarriages; since last confinement/Greus enlarged; indurate confinement/Greus at sides; veryee pain at month-tender. May, '38; better for a time; during last year unable to aftend to any duties; excessive flow with pain.	Healthy; menstruated at 18; irregular; married at 18; child at 20; miscarried at at all at 27; tuvers so well indurated masses at since; has bearing down sides of uterus, more about; unable to at tend to any duties; has had discharge of pus on various occasions from vagina.
Residence, Dec. 20, 1893.	Charity Hospital, Mar. 2, 1894.	Lakeside Dr. W. W. Hospital, Holliday. Mar. 12, 1894.
Am. Dr. T. M. Sabine, 40 Warren, mar. Onio.	Dr. M. F. Miller, Wads- worth, Oblio.	Dr. W. W.
Am. 40 mar.	Ат. 36	Am. 36 mar.
J. P.	XVII.	XVIII.

# OPERATIONS FOR SALPINGITIS AND OÖPHORITIS.

Remarks.	Saw patieut in August' 94, in ex cellent in health; had no attacks since operation.	Case given in detail at end of tables.	Went home in ambulance 19 days a fer or operation; made rapid recovery.
Result.	얼	~	<b>#</b>
Irrigation and drainage.	No irrigation, no drainage.	Irrigatiou: Mikulicz tampon.	Irrigation: Mikulicz tampon.
After treatment.	No eighth day, wound irrigation, tion; uninterrupted no recovery. Left hospital, April 16. drainage.	Patient in bad shape for days after opera- fion. freely stimula- fed; smade complete	In extreme shock after operation; was stimulated but did not thorong ongly react until the following day; tampon removed on fifth day; stiftles removed on flath day; eleven iday; made uninterrupted recovery.
Operation.	ovaries inflamed; right titches removed on ovary cystic degenera-Stitches removed mornal, were removed headed by frist intenvita ovaries and pedi- tion; uninterrupted cles ligated with silk; recovery. Left hoselosed abdominal wound pital, April 16.	Tubes and ovaries full of patient in bad shape pus; ligature on right patient in bad shape pedicle cut through soit-for5 days after operaned mass and could not tion; freely stimulable tied; left pedicle liga-fedt; smade complete ted with silk; abdominal recovery.	Tubes and ovaries, en-In extreme shock after larged and contained operation; was stimu-lirrigation; pus; very dense adhe-lared but did not thorsions; ligated peddieles ongly react until the with silk; considerable following day; tampon Mikulicz hemorphage from torn removed on fifth day; adhesions; irrigated and stirches removed on made pressure with tam-eleven liday; made untampon; silkworm gut sut-interrupted recovery.
Examination.	Nothing to be felt dis- tincity; great pain in region of ovaries.	frerus in a deuse mass of adhesions: nothing to be felt distinctly: great pain on slightest pressure.	Indurations at sides of uterus; very tender.
History of patient.	Healthy; menstruated at able pain; during last 8 able pain; during last 8 years patient has been getting worse, and hypo-Nothing to be felt discernies of morp bin in e tincity; great pain in were necessary to con-region of ovaries. It is tool the spasms, patient of late confined to bed, unable to attend to any duties; very nervous.	Always delicate; menstruated at 18; regular, scand, married at 22; furthers in a dense mass pus; ligature on right patient in bad shape first child at 23, second of adhesions; nothing pedicle cut through soft-f or 5 days after operate 5, in a miscariage at 7 to be felt distinctly; ened mass and could not fron; freely stimulation on the first pain on slightest be tied; left pedicle liga-fed; amade complete that at 27; since last pressure, wound not sutured.  wound not sutured.	Neverhealthy; menstruat- odati3; regular; no pain; married at 23; child at 24; miscarried in June. '93, brought on by a fall; made good recovery. In Indurations at sides of January, '94, took coid uferus; very tender. while menstruating, fever, chills, and pelvic pain; did not improve and confined to bed en- tire time.
Place and date of operation	Lakeside Hospitat, March 12,	Charity Hospital, March 14,	Charity Hospital, April 9, 1894.
In con-Place and sultation date of with operation	Dr. F. S. Jones, Medina, Ohio.	Dr. W. G. Smith, Ravenna, Ohio.	Dr. F. L. Thomp- sou.
	Am. 29	Am.	Am. 26 mar.
No.	XIX.	N. N. M. J.	XXI.

Developed perirectal abscress about two months after operation; this was opened and packed with gauze.	Given in detail with case NN.
<b>x</b>	Death irom shock on second day.
Irrigation: Mikulicz tampon.	Irrigation; Mikulicz tampou.
Fampon removed on fifth day; had considerable discharge; sinus remained open about mine weeks; had pain in pelvis for some weeks; but gradually subsided.	Patient freely stimulated, but gradually failed.
Thbes inflamed: ovaries Tampon removed on cystic degenerated; in a fifth day, had considuants of adhesions; were erable discharge; sinns removed and pedicles remained open about Mikuliez ligated with silk, which in pelvis for some incision with silkworm weeks; but gradually gant.	Inbes and ovaries contained bus; everything in a mass of adhesions: discerded out with great difficulty and care to patient freely stimulatorial in othing remainer failed.  ed of left ovary but a few shreds of sloughing itsue; pedicles ligated with silk.
ndurated and tender masses to be felt at sides of uterns; uterus retroverted.	folid mass in pelvls; conld not make out uterus; great pain on slightest pressure.
Healthy until birth of removed and regular: nuarried at 16; ehild at 18; miscarried at 16; exist degenerated; in a fifth day; had considered the theorem of the then has had lindurated and tender mass of adhesions; were erable discharge; sinns periodical at face ks of masses to be felt at removed and pedicles remained open about part in a companied by sides of uterus; uterus ingaded with alk; uterus hine weeks; had paln sitteded to abdominal in pelvis for some incision with silkworm weeks; but gradually confined to bed most of	Addium health; menstrn- ated at 17; regular; mar- red at 24; miscarried at red at 24; miscarried at red at 25; miscarried at red at 26; miscarried
	Lakeside Hospital, April 19, 1894.
Am. Dr. E. P. Charity Weddell, Hospital, So Scottsdale, April 16, mar. Penn. 1894.	Dr. C. Baker.
Am.	31 зн.
XXIII.	XXIII.

REMARKS ON OOPHORECTOMY AND SALPINGECTOMY CASES.

The preceding tables include twenty-three cases with three deaths, two deaths being from peritonitis, and one from shock. In ten cases the abdomen was closed without drainage, in three cases a glass drainage tube was used, and in the remaining ten a Mikulicz tampon was introduced. The latter was especially servicable in cases followed by considerable oozing from torn adhesions.

CASE VI. Was operated by Dr. Pozzi, of Paris, at a complimentary clinic given him while visiting in the city. The case was unusually difficult owing to the dense adhesions following the long continued inflammation.

CASE IX. Patient was in considerable shock and freely stimulated. Considerable oozing continued and glass drainage tube was syringed frequently; the temperature gradually went up and on third day patient was in bad shape; the tube was removed, a finger introduced into pelvis and a quantity of broken down blood clot removed and the cavity flushed with water. From this on the patient commenced to improve slowly, but was not able to return home until February 2. The sinus continued to discharge and there was pain in pelvis which was aggravated by any exertion. In April, 1894, one ligature came away. In July patient returned to Cleveland and the sinus was dilated with tents. In September, 1894 the second ligature came away, this has been followed by a decrease in amount of discharge and a general improvement in the patient.

CASE XII. Patient went along nicely for two days, when a swelling of left parotid gland was noticed, on third day there was a well-marked erysipelas, commencing around the left ear. The inflammation gradually extended over the entire face. On the fifth day the tampon was removed. The patient had a high fever and was delirious, but the greatest care was exercised while dressing the abdominal wound in order that it might not become infected. The inflammation of the face gradually subsided, and the patient made a good recovery without any infection of the abdomen.

CASE XVI. The patient discovered an abdominal growth in October, '93, but it was thought to be a fibroid, rather than of an inflammatory nature. On December 16 she was suddenly taken with pain, and the temperature went to 103. On December 19 distinct enlargement could be felt in the region of the tubes. On the morning of December 20, Dr. Allen was called in consultation, but could not feel any tumors. The patient in the meantime had had chills and the temperature was increasing. It was decided to operate at once. On opening the abdomen a considerable amount of free pus escaped. Both tubes were found greatly enlarged and ruptured. The ruptures having taken place during the night, thus explaining the reason that they could not be felt just before the operation. The abdomen was freely flushed with water, and a Mikulicz tampon introduced. The temperature at once came down and the patient made a rapid recovery.

CASE XX. After last confinement, three years ago, had pelvic inflammation and never recovered her former health. In April, '93, attempted to assist in house-cleaning and was taken with severe pain in pelvis, with chills and fever. In October, '93, abscess broke into the bladder, and two weeks later into the rectum.

From time to time the discharge would cease, when the pain would become more severe and temperature would go up. Patient confined to bed all winter, and pain was so severe that on an average of 2 grains of morphia were required daily to give relief. Patient was brought to Cleveland in February, '94, and an attempt was made to build her up somewhat for operation. At the operation the tubes and ovaries were found in a mass of adhesions and full of pus, and the right pedicle was so softened that the ligature cut through and could not be tied. Left pedicle ligated with silk. Abdomen was irrigated and a Mikulicz introduced and tightly packed to make pressure on the bleeding surface; abdominal wound was not sutured. Patient was in profound shock at close of operation; vigorous stimulation was employed without any apparent

improvement. On second day the gauze strips were removed from tampon and the patient was in such a low condition that it became necessary to employ rectal stimulation in addition to hypodermics; nothing could be retained by stomach. Urine and portions of the rectal injections came through the abdominal opening. On the third day introduced catheter into bladder to ensure continual drainage. Patient was unconscious, temperature below normal, and only at times could any pulse be felt at the wrist. On fourth day there was slight improvement, enough to warrant removal of handkerchief and flushing of cavity on the fifth day. Patient gradually improved; in April the silk ligature came away; wound closed rapidly; went home May 1, and was entirely healed a couple of weeks later. Has gained flesh and is perfectly well.

CASE XXIII. Was a parallel case with the preceeding. Five years ago had a miscarriage, followed by pelvic inflammation with chills and fever. Never fully regained health, but was able to be around until about one and one-half years ago. About this time an abscess discharged into the rectum. Patient was in bed most of time, and required continual use of opiates. At the operation the right ovary and tube were full of abscesses, and nothing remained of left ovary but a few shreds of tissue. Abdomen irrigated and Mikulicz introduced. Patient in extreme shock. Was freely stimulated but never reacted, and died 48 hours after the operation.

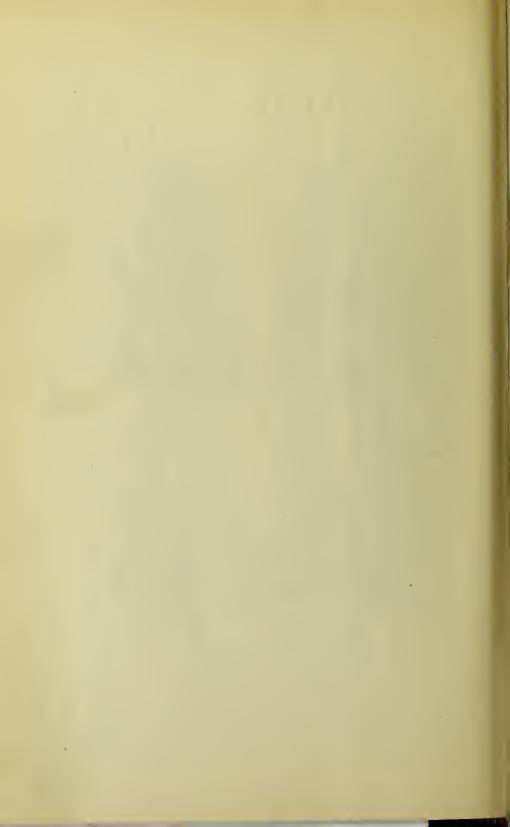
### OVARIOTOMIES.

Remarks.	Had some swelling of leg for a time; complete re- covery.	Induration eutirely dis- appearet pa- tient entirely well.	Patient very nervous and continually fearing ref'rn of growth; gene'l health nuch proved.
Result.	æ	ದ	×
Irrigation and drainage.	No Irrigation, no drainage.	No irrigation, no drainage.	Irrigation; glass drainage tube.
After treatment.	First dressing on ninth day; stifches removed; wound healed; seventeenth day developed phebitis of left leg; patient weut home May 31.	Stitches removed 7th day; wound healed; on 14th day developed induration and tender irrigation ness at pedicles; considerate solve owing no pelyic inflammation; left hospital Dedrainage.	Class tube removed on standard and stimulated by rectal enemata: stitches removed on 11th day; sat up in 3d week; went home January 20.
Operation.	Removed unilocular cyst First dressing on ninth of left ovary size of two day; stitches removed; fasts; tilld clear, sav very wound healed; seven tense; abdominal incis; leenth day developed ion closed with silkworm phiebitis of left leg; gut sutures.  May 31,	Removed multilocular Stitches removed 7th cyst of left ovary; clear day; wound healed; on fluid; no a dhe si on s: 14th day developed intribut ovary cystic degen- duration and fenden if its tube-pedicles ligated valescence slow owing with silk; abdominal in- to pelvic infammacision closed with silk- tion; left hospital Deworm gut sutures.	Free fluid in abdominal cavity: removed papil-lary cystoma of right class tube removed oul rrigation; soft and friable; adher-labed day; patient noursett to intestines, once by rectal enemata; tun and a b d o m i na litted a removed on drainage and handstin of soft paweek; went home Jan tube.  The control of the control
Examination.	Uterns normal size: crowded over to right side by a mass in left perly; tumorhard and tense; fluctuation in- distinct; slight tender- ness on right side; gen- eral health good.	Uterus normal size; Huctusting tumor reaching neary to um- bilicus; quite movable; general health good.	General appearance of one with malgrant trouble; nodular, furthating tumor reaching above untilities; furthating thense; great dyspinces; greatly emalgrant acidited; pulse irregular and intermittent.
History of patient.	Healthy; menstruated at the rown of the ro	Healthy; menstruated at 14; irregular; in December, '92, noticed that [I terus normal size; dresses were tight, dur-flu ut et ut at in g tumor ling Summer, '93, noticed reaching nearly to uncuror in left lind re-bilicus; quitemovable; gion; grew ste a lid; general health good, some pain, especially at periods.	Healthy, menstruated at 15; regular; had one deheral appearance of child; menstruated reg- one with malignant ularly until March, '93; trouble; nodular, fluctured, has not been trading tumor reach unwell; in August, '93, ing above unblicus; noticed abdomen was abdonner bense; great ender abdomen was abdonner bense; great charged; had pain in dyspnoca; greatly emright pelvis; tumor grew aciated; pulse irreguste a dily and rapidly; lar and intermittent.
Place and date of operation.	Lakeside Hospital, May 1, 1893.	Charity Dr. N. M. Hospital, Jones. Nov. 6, 1893.	Charity Hospital, Dec. 7, 1893.
Patlent sent by.	Patient from Lorain, Ohio.	br. X. M. Jones.	Dr. Reed, Massillon, Ohio.
Nat., age, social con- dition.	Col. 32	Am. 24 single.	Ger.
No.	I. F.	П.	111. M. C. S.

### OVARIOTOMIES.

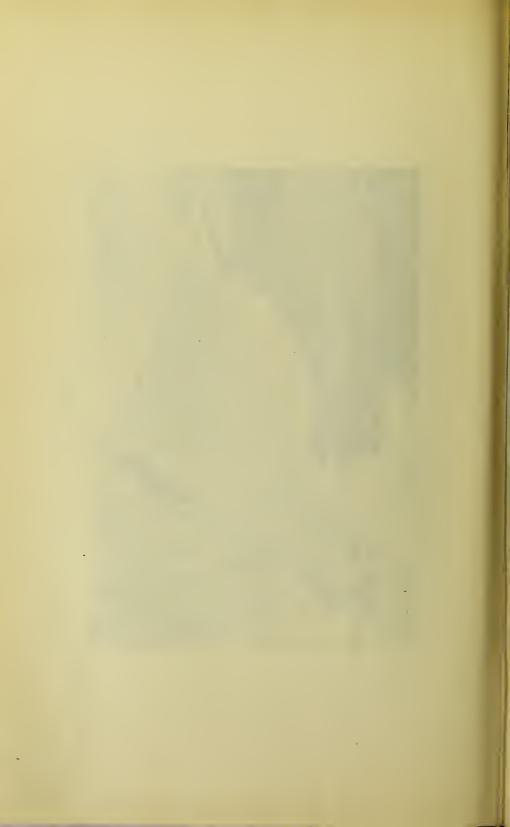
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ks.	ry.	[e-
Remarks.	Complete	slow collescence steadily proving.
ž	දි දී	Slow Hescen Steadi provin Pperate
Result.	æ	æ
rion ge.	ge.	icz icz
Irrigation and drainage.	rrigation no drainage.	Irrigation Mikulicz tampon.
dr dr	dr dr	ta M ri
ئد	titches removed on 10th day; wound healed; patient made recovery; left hospital March 4.	ampon removed on 5th day; stitches removed on 10th day; wound headed with exception of point of introduction of fampon; unin terrupted recovery.
men	wed w.	ved ches th th nt o tam team
reat	emo atie rrul eft	emo stitt 10 10 pon r of
After Treatment.	r s da	ay: ay: on hear
Affe	stitche 10th 10th an un covery March	lampon 5th da mouved ceptior troduct unint
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tion	id meal meal mull var thi thi thi thi thi silk silk	noven ven ven ven ven ven ven ven ven ven
Operation.	nuco ritto: prunt l nu son son move vith	d in ren mor series to livic stic movember of the series o
0	r n n n n n n n n n n n n n n n n n n n	flui ficture ficture ficture sion ficture fict
	Thick mucold fluid in free peritoneal cavity from rupture of a cyst: removed multioutlar cyst of left ovary weight of cysts so thick that of cysts so thick that off through largest tro-char: right ovary cystic and removed; bediefer ligated with silk.	Free fluid in peritoneal castive, removed fibrocastic tumor right ovary weighing seven pounds; adhesions to omentum and pelvic wall; left ovary cystic degenerated and removed; introduced tampon because of oozing from torn adhesions.
		Production of the state of the
ė	I to umstinct	dovable tumor extendand to umbilitiens; lard and nodular; could not make out fluctuation; free fluid in peritorial cavity; lost considerable flesh.
ttio	ded dis	corsecus; ar; ut find ind ind is
nfn	tten in good	tum abili odul se o se fl avit
Examination.	or exus; math th	able o un mal : fre rable
	Tumor exteud bilicus; in d fluctuation; health good.	Movable tumor extendad to umbilitions; lard and nodular; could not make out fluctuation; free fluid in peritonal cavity; lost considerable flesh.
nt.	enst r; u r; u don hou ec, ec, ec, ec, u v v v v v v v v v	ated me, clotices of clotices
atie	y;m yula ievei imei imei ine ine yutt yutt yutt yutt yutt yutt yutt yut	strus strus nat Ju ours Octo ceas 3, nc nt il
History of patient.	alth; i register is the same of the same o	pens r; in t; ch ti; ch tii C ey ey r; '9 righ
tory	s hee tt 114 tt 27 tt 27 th 16 th 16 th 17 th 17 t	IV; II get a
HIS	Always healthy; menstruated at H; regular; marriad at M; never pregrant; no fieed at M; never pregrant; in Summer of '93, may senlarged but thought it bloading from constitution and the market pregration; was enlarged but thought it bloading from constitution was enlarged but thought in october, '93, noticed tumorin left pelholis; commenced having pain; grew slowly until December, then increased rapidly in size.	Healthy; menstruated at 13; regular; in June, '93, '10 to e d that clothes, were tight; courses continued until October, '93, when they ceased; in September, '93, noticed a ttumor in right lilac region; increased steadily in size.
	- 4	<u> </u>
Place and date of operation	Charity Hospital, Jau. 22, 1894.	Lakeside, Hospital, January 23, 1893.
lace date pera	Charity Hospital, Jau. 22, 1894.	Lakeside Hospital, January 23, 1893.
Patlent sent by	r. W. J	Patient from James- town, Pa.
Pat	Dr.	Pa fr Ja tow
t., igial on.		Am. 33 single.
Nat., age, social con- dition.	Am.	
No.	IV.	V. M.M.B.
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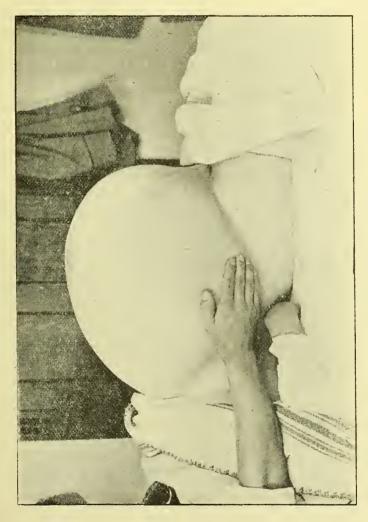
Death from Operated shock three before clinic; hours case given in after detail below.	Complete recovery.
Death from shock three hours after operation.	, pr
Death from Irrigation: shock Mikulicz hours tampon. after operation.	Irrigation ; Mikulicz tampon.
Patient in extreme shock; was stimulated to utmost, but grad- ually failed.	multilocular Patient in good condi- ovary weight fun after operation; distribution that the operation; substantial the day; patient de- tines, colon, weloped as severe cysti- and pelvic fis which subsided ovary cystic under treatment. It and re- licles ligated Patient left hospital
Removed multilocular cyst of left ovary weighting 64 lbs; adhesions to intestines, omentum, Patient in extreme pelvic and abdominal shook; was stimulated walls; thick chocolate to utonost, but gradcystic degenerated and removed; pedicles lied and removed and remov	Removed multilocular Patient in good condisers of left ovary weign-tion after operation; ling 80 pounds; tumor ad-tampon removed on herent to one-nium, 4th day; patient designal intestines, colon, veloped a severe cystiable ovary cystic under treatment.  May 5th, etc. hospital tampon.  Ray 5th, etc. hospital tampon.
lypical facies ovariana; abdomen measured 47% inclus in circum- ference at umbilicus; great dyspnæa; codema of lower extremeties.	Abdomen enormously distended; distinct fluctuation; physical signs of ovarian cyst.
Healthy; had child 12 years ago; menstrated ago, when she comprehensive the comprehensive to increase in Typical facies ovariana; size; tumorgrew steadily 47% incles in circumcommenced grown in ference at umbilicus; rapidy; Dr. Hawtey first great dyspuca; cedema saw patient 3 days before operation; batient	Healthy; menstruated at the normal aboves a part of the normal labors: a p
Lakeside Dr. E. P. Hospital, Hawley. January 26, 1894.	Charity Hospital, March 13,
Bohem. 34 Mar.	Amer. 51 Mar.
VI.	VII.



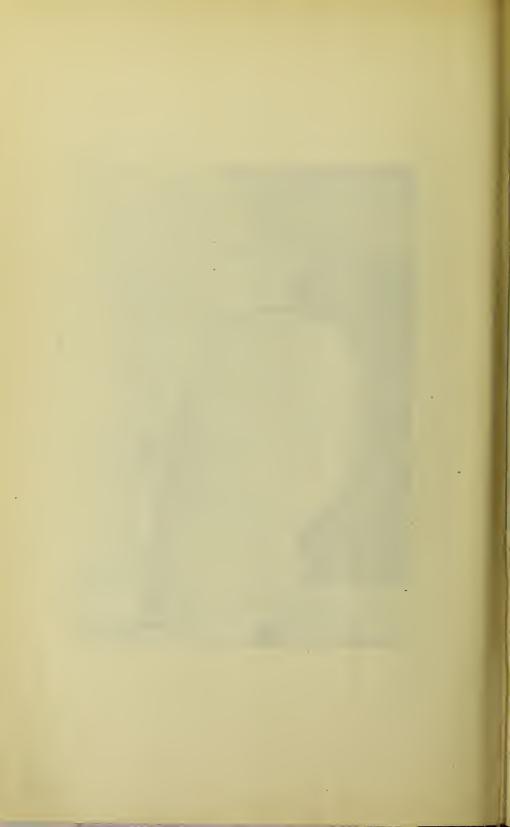


CASE VI. OVARIAN TUMOR, WEIGHING 54 LABS.





CASE VII. OVARIAN TUMOR, WEIGHING 80 LBS.



### REMARKS ON OVARIOTOMY CASES.

The foregoing tables include seven operations for cystic disease of the ovaries, with one death. The cause of death being from shock. In three cases the abdomen was closed without drainage. In three cases a Mikulicz tampon was introduced, and in one case a glass drainage tube. Both ovaries were removed in all but one case. The following cases, with accompanying photographs, are reported somewhat in detail, owing to their enormous size.

CASE III. Had always been healthy until August, of 1893, when she noticed that the abdomen was somewhat enlarged, and had pain in the right pelvic region. The tumor grew steadily and rapidly, and the pain increased in severity. Dr. Allen first saw the case November 10, 1893. The diagnosis of ovarian cyst, possibly of a malignant nature was made, and patient was advised to remain and have the operation at once. She, however, insisted upon returning home, and did not present herself for operation until December 7th. During this time the tumor had increased rapidly in size, so that patient was unable to lie down, owing to the extreme dyspnœa. Patient had lost flesh, appetite was poor, and pulse irregular, rapid and weak. The patient urged an operation, even though the chances of recovery were small. On opening the abdominal cavity, considerable free fluid escaped. The cyst was adherent to the intestines, omentum and abdominal wall, and was so friable, that it tore upon being separated, even from the slightest adhesions, and the soft pulpy mass was removed in handfuls. abdominal cavity was irrigated and a glass drainage tube introduced. The patient was freely stimulated before and during the operation, which was performed as rapidly as possible, owing to her weak condition. On the following day the drainage tube was removed, and the abdominal wound healed almost by first intention. The patient made a good recovery, but is of an exceedingly nervous disposition, and constantly imagines that another tumor is developing. Up to

the present time, however, there has been no sign of any recurrence. The tumor was a papillary cystoma of the ovary.

CASE VI. A Bohemian woman, thirty-four years of age. Was perfectly healthy until four years ago, when she noticed that her abdomen was increasing in size. In December, 1893, the tumor commenced to grow rapidly, and it became difficult for the patient to get around, owing to its excessive weight. No physician, however, was employed until January 23, 1894, when Dr. Hawley first saw the case. The same afternoon Dr. Allen was called in consultation. The patient was very much emaciated, the extremities were swollen and there was great dyspnoea, so that the patient was unable to lie down.

The physical signs were those of a multilocular ovarian cyst, containing a thick fluid. The patient was taken at once to Lakeside Hospital, and on the following day small doses of a mild chloride and oleum ricini were given without effecting a movement. The patient was unable to retain any nourishment by stomach, and it was impossible to build her up preparatory to an operation. The morning of the operation the patient had failed somewhat, but it was feared to delay longer, and the only hope seemed an immediate operation. This was performed before the clinic. The cyst was adherent to abdominal viscera and was so friable that it tore repeatedly while being separated from its adhesions. The contents were of a thick chocolate-colored fluid, and the entire cyst weighed 54 pounds. The other ovary was also found to be cystic degenerated, about the size of a fist, and adherent to the larger cyst. This was also removed, the pedicles being ligated with silk, and the adhesions with cat-gut. The operation was performed with every precaution, and as rapidly as possible, and stimulation was given before and during the operation to sustain the patient. The patient, however, did not rally, and died three hours later.

CASE VII. Five or six years ago noticed that her dresses were tight, but did not notice any growth until about one and one-half

years ago. She then slowly but steadily increased in size until six months ago, when the tumor commenced to grow rapidly. Dr. Allen first saw the case March 4, 1894.

The physical signs were those of an ovarian cyst of enormous size. The general condition of the patient, however, was excellent, and operation was strongly advised. This was performed March 13. The cyst wall was adherent to the abdominal viscera, but the adhesions were not dense, and could readily be separated. A multilocular cyst of the left ovary was removed weighing 80 pounds. The abdominal cavity was irrigated and a Mikulicz tampon introduced. The patient went through the operation nicely, and had a pulse at the close of 120. On the following day the gauze strips were removed from the interior of the tampon and the handkerchief was removed on the fourth day. The patient made a rapid and complete recovery.

# LAPAROTOMIES FOR FIBROIDS OF THE UTERUS.

Remarks.	Heard from patient one patient one year after op-fleath better than ever be-fore, able to attend to all house hold duties.	Postmortem examination showed In rombosis of iliar veins and embolism of pulmonary arteries.	Autopsy showed no signs of perit- onitis; every- training in re- gard to open- ation in per- fect order.
Result.	±	Death on 12th day day from embolius of pullmon-arry arteries.	Death ou 6th day.
Irrigatiou and drainage.	Irrigation, no drainage.	Irrigation. no drainage.	No irrigation, no drainage.
After treatment.	ut two bilicus, in good condition after ut for operation, abdominal sterior sutures removed on 8th Irrigation, as ap-day; serre mod registure, moved on 15th day; sard and ap- up-4th day; patient no ut to did not gain strength extra- until after leaving hosed ab- pital, when she condraint me u ced improving Tunor rapidly.	Had sone temperature following operation, but this subsided; on litth day serve mend was removed and porlirigation of dried pedicle cut away; patient was reflecting very well; on afternoon of same day drainage, patient suddenly complained of shortness of breath, and died in a few minutes.	Patient did well for 3 days, bowels moved and was taking nour- ishment, then ten- irrigation, persture and pulse commenced to go up, aud patient gradually frainage.
Operation.	thdominal incisic incises above um incestine adhere un intestine adhere where inches on posture of uter philed elastic his amputated uterns philed serve ne stump, sutured peritroueally; clos domen with sil gut sutures.	Applied elastic ligature, incised uterus and enu-cleated fibroid weighing 4 lbs.; applied serre neud amputated uterus aud treated shimp extra peritoneally; abdominal incision closed with silk worn gut.	berg position: uterus patient did well for 3 sulze of two fists removed days, bowels moved auterior, surface and am was taking nour-sewed incision with car, ishment, then ten-gut, removed ovaries perture and pulse and tubes ligating pedi-commenced to go up, else with silk; sutured and patient gradually aldominal wound with failed.
Examination.	Patient very thin and yellow, presented almost the appearance of one with malignant trother. Tumor hard and presenting physical signs of a fibroid, extended three incles above umbilicus.	Patient very pale; hard frunor in pelvis, and reaching nearly to unibilicus; presented physical signs uterine fibroid.	Patient very weak and nervons: could feel enlary out a durations and teuderness over ovaries.
History of patient.	Never very strong; men- structed at 15; regular, but scanty, and great, child at 26, no miscar pellid at 26, no miscar having pata on right most the appearance side mear umbilicus; at of one with malignant tacks had no reference tracks had no reference tracks had no reference tracks had no reference to periods; at 41 noticed trans that side grew steadily; has had a profuse, thin bloody dis- profused thin	Healthy; meustruated at 13; period every 8 weeks; first uoticed tumor in median liue 4 yrs. ago. about same thine had patient very pale; hard severe lemorrhage; two funor in belvis, and hemorrhage; treated with electricity with no history with electricity with no history severe hemorrhage, last fibrold. Bays. Since then had two severe hemorrhage, last ing 15 days. Since then had two severe hemorrhage, so severe thenorrhages, so severe thenorrhages, so severe than patient was left ex-	Medium health: men- struated at 12, normal patient very weak and quantity; 4 yrs. ago peri nervons: conid deel en- coo frequently and flow- productive in this has a steadily increased until ness over ovaries.  Patient is much weak- ened by loss of blood.
Place and date of operation.	Charity Hospital, May 9, 1893.	Lakeside Hospital, May 16, 1893.	Charity Hospital, Oct. 4.
In consultation	Patient from Amster- dam, Onio.	Dr. D. H. Lakeside McMillan, Hospitat, Orville, May 16, Onio. 1893.	Am. Patient from 36 Oberlin, single. Onio.
Nat. age, social condi- tion.	Am. mar.	Ger. 28 Single.	Am. 36 single.
.o.	L. W.	11. M. M.	HI.

Patient made a complete recovery.	Has had consider a ble trouble with bladder, but improving. Entirely well so far a signment from the sare concerned.
괦	괊
Irrigation, Mikulicz tampou.	No irrigation, no drainage.
Mikulicz removed on ad day; patient required vigorous simulation for several days after operation: elastic ligature applied to stump on 8th day to hasten its separation; developed phebitis on 23d day.	Had temperature of No 102.2-5 on 4th day, and great pain in wound; irrigation, lat dressing on 10th day; wound had suppurated superficially, was opened and irrigated; healed by grandran, had severe cystitis, had severe
incised uterus and enu-Mikulicz removed on fincised uterus and enu-Mikulicz removed on cleated several fibroids. 3d day; patient one extending down quired vigorous stinuinte anterior lip of lation for several days cervix; could not apply after operation; elastic serre neud owing to ligature applied to cavity left by fibroid; bashen its separation; with slik ligatures and developed phebitis sutured extraperitou- on 23d day.	Operated in Trendelenb'g position; uterus about Had temperature of the size of affst; overies 102-5 on thin day, and were adherent, tubes in-great pain in wound; irrigation, extremeties occluded by day; wound had supatubes and overies, ligal-was opened and irritubes and overies, ligal-was opened and irritubes and overies, ligal-was opened and irritube abdominal incl. gated, healed by grandelson with surures of silk. Expected, healed by grander worm gut.
atient very pale from loss of blood; tumor reached to unbilieus, presented physical signs of uterine fibroid.	Patient very pale; uterns somewhat enlarged, indurated and tender masses to be felt at the sides.
Healthy: menstruated at incised uterus and enu-Mikulicz removed on fincised uterus and enu-Mikulicz removed on cleared several florids, 3d day; patient very time; one extending down quired vigorous stimulation on miscarriages; 3 years loss of blood; tumor ervix; could not apply after operation; esveral days in the one of steadily; flowed more at presented physical cavity left by fibroid; stump of laterus hadron; and in Feb., 3d, signs of uterlue fibroid, etters hadron; sere and eveloped phiebitis surface took any local stump of uterus hadron; and developed phiebitis surface took any local treatment.	Healthy; menstruated at 13, was regular until 27, when periods came every two weeks; within last 4 years periods came every month, but amount. Patient very pale; uterof blood has been stead, us somewhat enlarged, ify fucreasing until now indurated and tender pariest extinansed masses to be felt at the after each period; flow-sides about 10 days; has been treated with each reated with each reated with mics of ergot.
	Pr. J. Lakeside Smith, Hospital, Collinwood April 18, Ohio. 1894.
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46 mar.	Am. 36 Co
IV.	2 × 2

### REMARKS ON FIBROID CASES

The preceding tables include five cases of laparotomy for uterine fibroids, with two deaths. The cause of death in one case being from embolus of the pulmonary artery, and in the other could not be definitely determined. In three cases the uterus was removed, and the stump treated extraperitoneally. In two cases in which the fibroids were small, the ovaries and tubes were removed. In only one case, was abdominal drainage employed.

In the cases of hysterectomy, the method of proceeding was as follows: After making the abdominal incision the broad ligaments were ligated with heavy silk, an elastic ligature was then placed around the cervix and tightly drawn. The uterus was then incised, and the fibroid enucleated, taking care not to infect the abdominal cavity. The broad ligaments were then cut, and a serre-neud placed around the cervix. The uterus was then amputated, and pedicle sutured in the abdominal wound. After the operation the serre-neud was frequently tightened during the first day. As fast as the pedicle dried it was cut away with scissors, and the depression finally filled and healed by granulation.

The following cases are given somewhat in detail:

CASE I. Had never been very healthy, and presented almost the appearance of one suffering from malignant trouble. At the operation it was noticed that the blood was very thin and pale, and did not clot. The patient was able to sit up about four weeks after the operation, but she did not gain strength, and it was feared for a time that there was some complication which had not been relieved by the operation. She was advised to return to her home in the country, and after a while commenced to improve. Patient was heard from one year after operation. Writes that she is now in better health than ever before, and is able to attend to all her household duties.

CASE II. Was in a poor condition at the time of operation, but hemorrhages were so extensive that it was impossible to delay

until the patient could be built up preparatory to operation. Everything went along nicely for about three days, when the temperature commenced going up and it was feared that septic infection had taken place. The fever continued for about a week, then gradually subsided, and the patient was considered to be out of danger. On the 12th day the serre-neud was removed, and a portion of the dried pedicle cut away. On the afternoon of the same day the patient suddenly complained of shortness of breath, and died about five minutes later. At the post mortem the iliac arteries were found to be thrombosed, and portions of the clot becoming detached, had been carried through the heart and into the pulmonary arteries, thus completely occluding them.

CASE IV. The fibroid lay in the anterior uterine wall and extended down into the cervix. After enucleation and amputation a deep cavity remained and it was impossible to apply the serre-neud, and at the same time drain this cavity. The pedicle was ligated with silk and sutured in the abdominal wound.

### MISCELLANEOUS LAPAROTOMIES.

The following miscellaneous cases are of sufficient interest to report in detail:

(TUBERCULAR PERITONITIS.)

M. M. Age, 21. Colored. Single.

A rather delicate mulatto girl, had never had any particular illness; menstruated at 12; always regular. In Fall of 1891, had some pain in right pelvic region, and the abdomen commenced increasing in size. In May, of 1892, the abdomen was enormously distended, and was tapped, with removal of a wooden pailful of clear fluid. The abdomen did not refill, and during Summer patient regained her former health. During the following Winter, the patient again had pain in the pelvis, and was unable to do any work. From this time until April 1st, was confined to her bed a good share of the time. Entered Lakeside Hospital, April 20, 1893. Patient had a temperature ranging from normal to 102, great pain in pelvis, and unable to get around. Patient was examined under an anæsthetic, and hard indurated masses could be felt in the region of the tubes. A laporotomy was advised and performed on April 6th. The tubes and ovaries were in a mass of adhesions, and on the right side only a few shreds of tissue remained, surrounded by a soft caseous material. This was in part removed and a Mikulicz tampon introduced. The patient was in considerable shock at close of operation. The tampon was removed the fourth day, and daily dressings were made with irrigation of the wound. The temperature still continued, at times going to 103, but the general condition of the patient improved and the pain in the pelvis subsided. Patient left hospital July 9th, and returned to her home in Virginia. from her physician state that a small sinus still remains, but that she is able to do light household duties. The case was undoubtedly one of tuberculosis commencing in the tubes with following peritoneal infection.

### GUNSHOT WOUND OF THE INTESTINES.

M. B. Pole. Age, 11. Female.

Was accidently shot in the abdomen at 7:30 a. m., May 12, 1893.

Dr. E. P. Hawley was called to see the case about 10 a. m., and Dr. Nevison was called at 11:30 a. m. Child was found in great pain, pulse about 125, very pale, and extremities cold. Had vomited blood shortly after the accident, and passages from the bowels were tinged with blood, but urine was normal. The ball, a 32 calibre, had entered the skin at about McBurney's point, and its course could be traced with a probe downward and inward toward the median line. It was decided to operate at once. Dr. Hawley gave ether. A median incision was made, and on opening the peritoneum a quantity of thin bloody fæces escaped, together with a small piece of a gingham apron which the child had worn. Commencing at the ileocæcal valve the small intestine was followed upward. Thirteen holes were found in the small intestine, these were closed with etage sutures of cat gut. The anterior surface of the sigmoid was also perforated, and the opening was closed in a similar manner. The bullet could not be found, and the condition of the patient did not permit of a prolonged operation.

The operation was made in a house in which there were no conveniences, and no facilities for flushing the abdomen. The abdominal cavity, however, was sponged as thoroughly as possible, and a tampon introduced into the pelvis. At the close of the operation, the patient was in extreme shock, but rallied under stimulation, and the following morning the condition seemed somewhat hopeful. The improvement, however, was only temporary, and she died 27 hours after the operation.

An autopsy by the coroner showed the openings in the intestine to be satisfactorily closed, but there had been a collection of bloody serum in the pelvis. The ball was found in the left iliac bone.

### CHOLECYSTOTOMIES.

CASE I. N. R. American. Age, 49. Female.

Never very healthy. Since patient was 17 years of age she had been subject to attacks of colic, with pain in the region of the stomach. These attacks, however, had none of the characteristic symptoms of biliary colic; patient had never been yellow, and had not noticed any peculiarity of stools or urine.

Since two years, patient has had symptoms pointing to disease of the stomach, solid food caused great distress, and was immediately vomited, but there had never been any blood in the vomited material. For fifteen months before the operation, patient had not taken any solid food, except a little chopped beef, very rare. During this time she had lost 82 pounds, and had a sallow complexion. No tumor could be felt. The stomach was washed daily for a number of days, preparatory to operation, which was performed on May 19, 1893. Dr. G. S. Lanterman of Bellevue, the physician of the patient, being present. After the patient was under the anæsthetic, a hard tumor could be felt in the region of the pylorus. On opening the abdomen in the medium line, the gall bladder was found greatly distended, and calculi could be distinctly felt in its interior. The general abdominal cavity was protected from infection by sheets of gauze, and the gall bladder opened between retaining sutures. Fifty-one gall stones, varying in size from a millet seed to a hickory nut, were removed. There was no lesion of the pylorus. The gall bladder was stitched in the abdominal wound, and a rubber drainage tube introduced. The remainder of the abdominal incision was closed with silk-worm gut sutures. The patient reacted nicely after the operation. Daily dressings were made, and at times the discharge of bile was profuse. The general condition of the patient, however, rapidly improved, and shortly after the operation she was able to take solid nourishment without any of the former inconvenience. Patient sat up in the third week, and went home about five weeks after the operation. Heard from patient February 26, 1894. Writes

that she is better than ever before in her life. A sinus still remains, and at times there is a profuse discharge of bile, but beyond this, she has no inconvenience from the wound.

CASE II. E. S. American. Age, 43. Male.

Always healthy. During last few years had taken freely of stimulants. On January 1, 1894, was taken with severe pain in the region of the gall bladder, which suddenly subsided on the following day. There was, however, no change in the color of the skin at this time. About February 1st, had second attack, and pain continued four days, and located over the region of the gall bladder. About the middle of February, had the third attack. This time, however, the pain was more over the region of the stomach, and not so severe as in the preceeding attacks. Slight tenderness remained, and the patient noticed that the skin was of a yellow tinge. On March 6th, had a chill, and the temperature went to 104. March 7th, temperature 101, pulse 105. March 8th, temperature subnormal, pulse 80 to 100. Dr. Allen was called in consultation by Dr. T. M Sabin of Warren, March 8th. Patient was a corpulent man, skin of a decided yellow, abdomen tympanitic. Liver dullness extended from fifth rib in the mammary line to the border of the floating ribs. No tumor could be felt, but there was extreme tenderness on pressure over the gall bladder. It was decided to operate at once.

An incision five inches in length was made parallel to the border of the ribs. The liver was of normal color, the gall bladder small and fully distended. The contents were drawn off with an aspirating needle, and the gall bladder opened between retaining sutures. No calculus could be felt. The gall bladder was surrounded by dense adhesions of an inflammatory nature, and the walls were about one-fourth of an inch thick, and very dense. The adhesions extended around the common duct and prevented satisfactory exploration. The bladder was sewed to the abdominal incision, and glass drainage tube introduced. The remainder of the abdo-

minal incision was closed with silk-worm gut sutures, with a gauze tampon around tube. The patient reacted well, with a pulse of 112. During following night, however, he became delirious, gradually failed and died 21 hours after the operation. No post morten could be obtained.

### INTESTINAL OBSTRUCTION.

Case I. F. P. American. Age, 42. Constipated habit.

July 16, 1893, taken with abdominal pain; injections brought away lumps of faecal material containing seeds. Cathartics and injections were repeated, without obtaining satisfactory movement, and the pain and tympanites increased. Dr. Allen was called in consultation July 22; found the patient in great pain with stercoraceous vomiting. Patient had had similar attacks before, but not so severe, and trouble had subsided under cathartics. Patient had had a left omental inguinal hernia, but there were no external evidences at this time. Operation was advised, and performed at once. Median incision. Intestines and omentum were found in masses of adhesions at the left inguinal ring. These were separated as far as possible, but the patient was not in condition to endure a prolonged operation. Patient regained consciousness about two hours after operation, then went into a collapse, and died about 28 hours later. No autopsy could be obtained.

Case II. C. J. B. Constipated habit.

Gave indefinite history of having had attacks of abdominal pain, but nothing of a severe nature. Had had typhoid fever several years previous. Was taken, Feb. 1, 1894, with abdominal pain, more severe along descending colon; mild chlorides and injections were given, but nothing beyond an evacuation of the lower bowel was obtained. Patient was extremely tympanitic; there were no symptoms pointing to an appendicitis. Dr. Allen was called in consultation Feb. 5th. Patient had been kept under influence of morphia to control the extreme pain; had no localized tenderness, excessive tympanites and nothing to be felt by abdominal palpation.

Operation advised and performed. Chloroform was given, but patient was not brought sufficiently under to relax the abdominal muscles. Median incision was made with lateral incision to the left. Adhesions were found around the descending colon, and at the splenic flexure. Gauze drainage was introduced, and abdominal incision closed with great difficulty, owing to the distended intestines and rigidity of abdominal muscles. On following day large quantities of flatus passed, with slight movements of the bowels. Patient for a time was much improved, but again commenced to fail, and died on the third day after the operation. No autopsy could be obtained.

Case III. H. M. German. Age, 17.

Gave history of having had attacks of inflammation of the bowels. Was taken sick March 26, 1894, pain in abdomen. Following day vomited and had diarrhea. March 28, Dr. Deucher was called: gave opium and bismuth and succeeded in checking diarrhea, but vomiting of a greenish fluid continued. Had regular stool daily until April 3d, when an injection brought away hard faecal lumps. Pain had been continuous and general until April 2d, when it seemed localized in left iliac region. Dr. Allen was called in consultation April 5th. Abdomen extremely distended and tympanitic, except in region of pubes, where it was flat, and fluctuation could be felt. Patient had no fever; pulse 100, and good. Was removed to Lakeside Hospital in afternoon, preparatory to operation the following morning. Rectal stimulation and nutrition was given, but during the night vomiting became excessive, and in the morning patient was decidedly worse; pulse weak and irregular; face cyanotic and anxious; eyes sunken; extremities cold, and had general appearances of patient entering collapse. Operation was almost hopeless. but was urged by the relatives at all hazards, and laparotomy was performed. Median incision was made and abscess containing about a quart of thin pus was opened; intestines adherent and general peritoneal cavity was not opened. Abscess cavity was flushed and gauze tampon introduced. Operation was quickly over, and patient was stimulated to the utmost, but did dot react, and died about seven hours afterwards. Autopsy on following day. Another abscess was found behind the caecum; which was in a mass of adhesions, and the appendix had been completely destroyed. Patient had never had any symptoms pointing to an appendicitis.

### INGUINAL COLOTOMY.

### G. N. P. American. Age, 53. Married.

Had paralysis of left leg since infancy. Had typhoid fever at 25. In spring of 1891, noticed he was more constipated than usual and that stools were streaked with blood, but had no pain with movements. Constipation steadily increased and patient lost flesh. In October, 1892, had a hemorhage from the bowel and noticed that there was a considerable discharge of very offensive pus.

Patient was first seen in consultation with Dr. W. O. Jenks, of Nottingham, in February, 1893. Abdomen was slightly distended, no marked enlargement to be felt, but over descending colon was an irregular resistance, with slight dullness. Rectal examination showed a stricture high up in the rectum, formed by a dense, nodular mass, and covered with offensive pus. Patient was not taking much solid food, because of pain with each movement.

Colotomy was advised, but patient preferred to wait, and did not present himself for operation until July 27, 1893. In the meantime, his condition had become worse; there was extreme tympanites, and liberal doses of morphia were required to control the pain. Gradually less and less fæcal material had passed, until now nothing but gas escaped at times. Hard lumps could be felt along the entire descending colon.

Laparotomy was performed under antiseptic precautions. Dr. Jenks gave the anæsthetic. Incision was made in left inguinal region. The sigmoid was sutured to abdominal incision, and owing to the extreme distention, it was opened at once to allow escape of

gas. Remainder of abdominal incision closed with silk-worm gut sutures. Patient reacted well. On fifth day bowels were moved with injections of oil, followed by water.

General condition of the patient improved for a while; took nourishment and the bowels moved regularly through the artificial anus. From time to time there would be passages of thin fæcal material through the rectum, and there was an occasional discharge of pus and blood. The patient lived eight months after the operation. Autopsy showed an epithelioma in upper part of the rectum.

### COMPLICATED PREGNANCIES.

CASE I. E.S. American. Married. Aged 30.

Always rather delicate. Menstruated at 15. Irregular, always over time. Never much in quantity. Married at 26. Since then been more irregular than formerly. At 27 had first child, normal labor, made a good recovery, never had any miscarriages. Was unwell in June, 1893, and in July and August courses did not appear. Had no trouble until about the middle of August, when she commenced vomiting, and could retain nothing on her stomach. Patient steadily failed, and was seen in consultation by three of the leading physicians of the city, who diagnosticated extra-uterine pregnancy. The vomiting became more severe, pulse weaker, and the patient steadily failed.

Dr. Allen was called in consultation September 13th, and found patient in a condition of extreme exhaustion. There was no abdominal enlargement to be seen, vaginal, examination showed the cervix to be soft, the os patulous, and the finger could be readily introduced into it. An enlargement was to be felt in the pelvis, being well to one side. The examination was made with great care, as the diagnosis of extra-uterine pregnancy had been made, and it was necessary to transport the patient to the hospital. This was done the same day. On the following day it was apparent that the patient was steadily losing ground. The intention had been to anæsthetize the patient, preparatory to a thorough examination, and

whatever operative interference should be deemed wise. When placed upon the table and etherized, the patients' condition was so low that it seemed if she were to be saved at all by any operative procedure, it must be done at once, and with great speed. As the diagnosis of probable uterine pregnancy had been made, without waiting for further examination, an exploration was made at once. The uterus was found enlarged, drawn well to one side, and pregnant.

With one hand in the abdomen, a pair of large forceps were carried into the uterine cavity, the cervix thoroughly dilated, and the abdomen was closed by an assistant. The pulse at the close of the operation was 155, and patient in extreme shock. By free stimulation and heat, she revived, and was nourished by rectal injections. Vomiting ceased at once, and did not begin again for 36 hours, at which time it recurred. At the time of the operation no attempt was made to remove the foetus, as the patients' condition did not admit of it. On September 16th, an attempt was made to introduce a soft catheter, but this failed. September 17th the os was dilated with a Goodell-Ellinger dilator, and a catheter was introduced. In a few hours labor pains became severe, and a three months' foetus was expelled. Patients' condition improved at once, she took nourishment by stomach, for the first time in three weeks. The abdominal wound healed by first intention, and the patient made a rapid and complete recovery.

Case II. N. P. American. Married. Age 27. Always healthy. Menstruated at 13. Regular. Had two children, the younger three years of age. Inasmuch as the statements given by the patient at different times were wholly contradictory, it was impossible to get a correct history of the case, but the following is the best that could be obtained

She menstruated in January, 1894, but failed to do so in February and March. She attempted to produce an abortion upon herself about April 10th. Was seized with severe pain afterward, and her

physician summoned. On his first examination he failed to detect any enlargement in the pelvis. There was a bloody discharge from the uterus, but the patient denied that she had tried to produce an abortion. A few days later the doctor could feel an enlargement in the pelvis, and on April 16th, Dr. Allen was called in consultation. As the patient denied an attempted abortion, the history of the case as given by the physician, lead Dr. Allen to diagnosticate an abortion. On examination Dr. Allen found an enlargement in the abdomen reaching nearly to the umbilicus. The physician in attendance said that at his last examination, two days previously, there had been nothing of the sort. The patient was very tender, and a thorough examination was impossible. The rapid increase in size, according to the statement of the attending physician, could with difficulty be accounted for on any other grounds than that it was due to an accumulation of blood. Inasmuch as the conditions of the patient were such as to render any surgical interference at her home very difficult, she was placed upon a spring mattress, and brought to the city, April 17th. On April 18th, an exploratory laparotomy was performed. The tumor was found to be the enlarged uterus. The os was immediately dilated, and the cervix and cavity of the vagina were packed with iodoform gauze, on removal of which a few days later, a three months' foetus was expelled. The abdominal wound was closed without drainage, and healed by first intention, and the further progress of the case was wholly satisfactory, the patient making a rapid recovery. She is now in excellent health.

These two cases are reported thus fully, on account of the peculiar circumstances surrounding them. The conditions in both were such that radical interference seemed imperative, and the conditions of the patients was so critical that if they were to be saved at all it must be with the least possible shock, and by a method which was absolutely sure; It was therefore determined in both of them to open and explore the abdomen as giving the operator

the best chance of positively diagnosticating the cases, and saving the patients' lives.

### TUBAL PREGNANCIES.

CASE I. R. C. American. Aged 30. Married.

Always healthy; 2 children, last child 3 years ago. Periods have always been regular. December 10, 1893, suddenly taken with pain in region of right tube. Dr. E. F. Cushing called during afternoon, and found patient with normal temperature and pulse, slight nausea, and pain had subsided. Patient had gone five days over her period, but had no suspicions that she was pregnant. Patient was kept in bed, and was visited daily. December 13th, while still in bed, was taken suddenly, about 4 p. m., with severe pain in right pelvis, Dr. Cushing called at once, and found patient almost pulseless, and in extreme collapse. Dr. Allen was called at once, and performed laparotomy at 5 p. m. Abdominal cavity was full of blood, and right tube was found to be ruptured; this was ligated and removed; abdominal cavity was flushed, and Mikulicz tampon introduced. The operation was done with the greatest speed, and the patient freely stimulated by hypodermic and rectal injections. Patient was in most profound shock, and did not fully react until the following day. On the fourth day the tampon was removed, and daily dressings were made with irrigation of the cavity. rapidly improved; wound healed entirely in about one month. Patient is now perfectly well.

CASE II C. F. C. American. Aged 24. Married.

Always healthy; menstruated at 13; not regular, until after 16; married at 19; no children; no miscarriages; was unwell the latter part of January, 1894. In February, courses did not appear, but patient noticed nothing beyond this, and did not suspect that she was pregnant. On March 25th, patient suddenly taken with pain in the pelvis; her physician, Dr. D. J. Merriman, of Painesville, was summoned, and found patient in collapse. Stimulants were given, and patient improved, but was kept in bed. A slight bloody dis-

charge occurred from the uterus, and continued until the operation. On April 1st, patient attempted to get up, and was taken with symptoms similar to those in previous attack, but more severe. At this time an indistinct fullness could be distinguished in the pelvis. Patient again rallied, but pain did not entirely subside, and she was brought to Cleveland on a cot, April 29th. Examination showed a dullness over lower portion of abdomen; cervix was soft, and os patulous. Laparotomy was performed on April 30th. Peritoneal cavity contained a small quantity of dark, bloody serum; right tube was enlarged, and ruptured into a cavity formed by the adhesion of intestines and omentum. Tube was removed, and pedicle ligated with cat-gut. Abdominal cavity flushed, and Mikulicz tampon introduced. During the operation a Meckel's diverticulum was discovered on the small intestine. Patient went through the operation nicely, and made an uninterrupted recovery.

### SARCOMA OF MESSENTERY.

F. G. American. Aged 49. Had always been delicate. Two years ago noticed tumor in abdomen, slight pain, periods regular. Tumor grew slowly until three months before operation, when it commenced growing rapidly. Had frequent vomiting spells, but bowels were regular. Patient sent by Dr. Wagner, of Ravenna, O. Physical examination showed free fluid in abdominal cavity. Through this fluid a hard, nodular, movable tumor could be felt, but its attachments could not be made out. Operated at Lakeside Hospital, April 7, 1894. Median incision below umbilicus. Several quarts of a milky white fluid in free peritoneal cavity. A tumor about the size of an adult's head was lifted out of abdomen, but its removal was impossible as the messentery of nearly all the small intestines was involved. Tumor was of a dark red color, and very vascular. Closed abdominal incision with silk-worm gut sutures. Patient reacted well, and everything went along nicely for several days, then heart commenced to let down, and patient died of exhaustion on 9th day. Post mortem showed abdominal cavity free from infection. Tumor involved nearly entire messentery of small intestine.

### VENTRAL FIXATION OF UTERUS.

### H. J. German. Age 44. Widow.

Fifteen years ago had a fall, and three days later gave birth to a child. On getting up from confinement, uterus was found to be prolapsed. Pessaries of various kinds had been worn, but afforded no relief. Patient was operated by Dr. Howard Kelly, of Baltimore, at a complimentary clinic given him at Charity Hospital, on March 10th, 1894. The patient made an excellent recovery.

### ABDOMINAL CASES NOT LAPAROTOMIES.

Psoas abscess	2
Sinus following laparotomy	1
Aspirations	4
Hernia	8
Nephrectomy	2
Nephrotomy	1
Total	18

Psoas Abscess.—The patient was a child about 7 years of age. The first symptoms of spinal trouble were noticed about four years ago, and during the last three years the patient had been kept on his back in bed. There was slight kyphosis, and in the left iliac region could be feld a fluctuating mass, clearly defined. This was aspirated under antiseptic precautions, with removal of about a pint of pus. An injection of iodoform in glycerine was then made.

Aspirations.—In one case there was an extensive effusion into the peritoneal cavity, so that it was impossible to make a diagnosis. After removal of a bloody serum with an aspirator, a hard immovable mass could be felt in the pelvis, which was probably of a malignant nature. Laparotomy was declined and the patient died some weeks later. No autopsy could be obtained. The other three cases were aspirations of ovarian cysts of long standing, and operation was not advised because of the poor conditions of the patients, and the probability of extensive adhesions.

# OPERATIONS FOR HERNIA.

Remarks.	Uninterrupted	Had been operated by years previously but returned when truss was discontinued. Has been uo return of trouble since last operation.	No recurrence.	Uninter r up t ed recovery.
Drainage.	Iodoform gauze.	Iodoform gauze.	No drainage.	No drainage.
After treatment.	Bowels moved third day.  Temperature did not go above lul.  Stitches removed on tenth day.	Seventh day temperature went to 165; opened wound lodoform and considerable bloody serum escaped, temperature immediately came down, and patient made an unliterrupted recovery.	Removed a piece of inflamed Bowels moved on third day; omentum, ligated and re made rapid recovery: moved sac; sutured ring wound healed by first intention tendon.	suttred and removed sac: Bowels moved fifth day; suttred ring with kangaroo wound healed by first intentenden.  Endon.  go above 99 3-5.
Operation.	Cut ring; returned intestine: tled sac with cat-gut; cut off Temperature and returned to abdominal above 101. cavity, sutured ring with kangarov tendon. day.	Removed piece of omentum, ligated and removed sac, festicle softened, and was removed; rlug sutured with kangaroo tendon.	Removed a piece of inflamed omentum, ligated and re moved sac; sutured ring with kangaroo tendou.	Ligated and removed sac: sutured ring with kangaroo tendon.
Truss.	Yes.	Yes.	No.	Yes.
Condition at time of operation,	Strangulated; 14 hours.	Incarcerated 9 days.	Incarcerated 2 days.	Reducible; could not be held by truss.
Diagnosis and duration.	Right femoral hernia;	Left inguinal hernia; 16 years.	Right ingulual hernia; 8 years.	Right inguinal hernia; 6 years.
Place and date of operation.	Lakeside Hospital, May 13, 1893.	Lakeside Hospital, July 28, 1893.	Charity Hospital, Sept. 26, 1893.	Charity Hospital, Oct. 2, 1893.
In con- sultation with	Dr. C. Sinier.	Dr. S. E. Kæstien,	Dr. B. Krause.	Dr. H. J.
Age, sex, social condi- tion.	60, fem. mar.	33, male, mar.	36, fem. mar.	22, fem. single.
No.	l.	II.	H. S.	. J. Š.

About six weeks after operation fell on ice and had considerable infammation and swelling in wound, but this subsided without doing any injury.	No recurrence: in ex- cellent health.	Obtained radical cure.	Left hospital three weeks after opera- tion.
odoform gauze.	No drainage.	Iodoform gauze.	Iodo'orm gauze.
irst dressing on third day; removed drainage; on fifth I day temperature went to lis but came down to nor- mal with movement of bowels.		an uninter- very; wound unulation.	
First dressing, removed draine of day tempera of day tempera of 103 but came is mai with bowels.	Bowels moved operation: 4 went to 103 of made good re	y Patient made record: healed by gr.	Drainage ren ad day; wound n. intention.
Eirst dressing on third day; sutured and removed sac; removed drainage; on fifth Iodoform sutured ring with Kangaroo day temperature went to tendon; large lydroceae and 103 but came down to norsoftened testicle, which was mai with movement of gauze. removed.	Incised ring; in testine  Rowels moved 6 hours after operation; temperature Sac ligated and removed; went to 113 on second day; ring sutured with kangaroo made good recovery.	Incised ring; intestine very dark but circulation re-Patient made an unlinter- turned, tied and removed rupted recovery; wound sac; did not sew up ring; healed by granulation.	Drainage removed on fifth ring with kangaroo tendon. intention.
No. te	Inc. Ca. No. Sac. ri. rie te	The day to be seen to	No. Tie
Left inguinal Reducible; hydro- hernia, four cele on same years.	Incar cer a ted 3 days; symptoms of strangulation developed a few hours before operation.	Strangulated; 12 hours.	Reducible.
Left inguinal hernia, four years.	Left inguinal hernia, two years.	Left ingninal hemia since a young man.	Left inguinal hernia, three months.
	Dr. B. Hospitai, Krause. Nov. 13, 1893.	Residence, Jan 28, 1894.	Patient Lakeside from Hospital, Buffalo, 1894.
Lakeside Dr. L. J. Hospital, Smith. Oct. 20, 1893.	Dr. B. Krause.	Dr. R. V. Residence, Gamble, Jan 28, London, Ohio. 1894.	
zs, male,	56. male,	69, male, mar.	28, maie, single,
C. S.	VI.	J. M.	VIII. T. W.

OPERATIONS FOR HERNIA.—The foregoing tables include eight cases of operations for hernia, with no deaths. Seven operations were for inguinal hernia, and one for femoral. Five operations were upon males, and three upon females. Two operations were for strangulated hernia, three for incarcerated, and three for reducible. One case had been previously operated, with return of the trouble; four had worn trusses, and four had not. In seven cases, after ligature of the sack, and its return to the abdominal cavity, the ring was sutured with kangaroo tendon. In one case, in which there had been strangulation, with considerable injury to the tissues, the wound was packed with iodoform gauze, and healed by granulation. This case, however, was followed by radical cure. In no case has there been recurrence of the hernia, and none of them have worn trusses since the operation.

### NEPHRECTOMY.

### CASE I. G. H. W. American. Aged 44.

Had always been healthy, but of a nervous temperament. years ago had a nephritis, and several attacks of renal colic. years ago spent a season in Carlsbad, and returned much improved in health. Dr. C. D. Noble, of Oberlin, was called to the case on September 2, 1892. Found the patient had been losing flesh of late, and was very much emaciated. There was pain and tenderness in the left lumbar region anterior to the left kidney. The temperature ranged from normal to 103. On September 6th, there was distinct fluctuation, and Dr. Allen was called in consultation. An operation was advised, and performed on the following day. A vertical incision was made from the ends of the floating ribs to the crest of the ilium, the kidney was incised, and an abscess containing about two quarts of pus was opened, and the cavity flushed with boracic acid solution. The patient was not in condition to endure a long operation, and it was not thought advisable to attempt removal of the kidney. The wound was tamponed with iodoform gauze, which was allowed to remain three days. Daily dressings

were made, the temperature came down to normal, and the patient rapidly improved. During the following winter and spring the patient became quite fleshy, but a small sinus remained, and the patient urged a more radical operation for the entire removal of the kidney. He was advised to delay the operation, but circumstances were such that he could not, and an operation was performed on July 5th, 1893. The sinus was followed down to the kidney, which was only about one-half the normal size, and was drawn up under the floating ribs. It was surrounded by the most dense adhesions, and before its removal could be accomplised it was necessary to resect the 12th rib. A small opening was made into the peritoneum, but this was immediately closed with cat-gut sutures. The pedicle was ligated with cat-gut, and the wound tamponed with iodoform gauze. The patient was in considerable shock at the close of the operation, and his reaction was only partial. He was stimulated to the utmost, but gradually failed, and died 48 hours after the operation. The autopsy showed that everything in regard to the operation was in perfect order. The wound in the peritoneum had been satisfactorily closed, and there was no infection of the abdominal cavity. The patient had a thick layer of subcutaneous fat, and almost no muscular tissues. The heart was also fatty degenerated. There had been suppuration along the line of the ureter with stricture. The right kidney, however, was normal.

CASE II. E. T. American. Aged 52. Female.

Always healthy until November, 1893, when she commenced having hemorrhages from the right kidney. After the first hemorrhage she had no pain, but about two weeks later had a second hemorrhage which was followed by considerable pain in the right side. About this time she discovered an enlargement in the region of the right kidney. Four weeks later had a third hemorrhage, but not so severe. Patient was referred to Dr. Allen, by her physician, Dr. F. Jones, of Medina. On January 4th, had fourth hemorrhage, and consulted Dr. Allen the same day. A distinct tumor could be felt

in the region of the right kidney, with pain on pressure. The patient had lost flesh, and it was thought that the trouble was of malignant nature. An operation was advised and performed on January 12, 1894. An incision was made from the floating ribs down to the crest of the ilium with a transverse cut extending anteriorly. The capsule of the kidney was incised, the tumor enucleated, and the pedicle ligated with cat-gut. The kidney was about three times its normal size, extremely vascular, and microscopical examination showed it to be a sarcoma. The extremeties of the incision were closed with sutures, with a tampon extending down to the pedicle. The patient made an excellent recovery, the wound being entirely healed about four weeks after the operation. The general condition of the patient is now excellent, and there has been no further trouble.

### NEPHROTOMY.

### G. W. American. Age 33. Male.

At the age of 19 had a fall, striking across the lumbar vertebrae, which was followed by paralysis of the lower extremities, from which he never entirely recovered. In October, 1891, Dr. Allen performed a perineal lithotomy for impacted calculus. The patient made a good recovery. The patient's general health improved, but he had at times attacks of renal colic, with pain in the region of the right kidney. Dr. Allen was called in consultation on October 20. The symptoms were those of calculi in the kidney, and it was decided to operate at once. A lumbar incision was made, the kidney opened, and several calculi removed from the pelvis. The patient was in very poor condition at the time of the operation, and did not react. He was stimulated to the utmost, but gradually failed and died 16 hours after the operation.

### OPERATIONS UPON THE CHEST.

Resection of the rib	5
Aspirations	8
Abscess	2
Operations upon the breast	13
Total	28

RESECTION OF THE RIB.—Four cases were resections for empyemia following pleurisy, one for empyemia following a gun shot wound of the chest.

CASE I.— Was a very fleshy man with feeble heart. His condition was such that it was not thought safe to give him an anæsthetic, and the resection was made with a local anaesthetic of ice and salt. The pus was deep-seated between the lobes, and was small in amount. The process extended, and the patient died about three days after the operation.

CASE II.—Was a boy who came late to operation. In this case, as in the preceding, the pus was deeply seated between the lobes. A free drainage was established, and for a time the patient improved. The other three cases made complete recoveries.

ASPIRATIONS.—In seven cases the aspirations were for serous effusions following pleurisy. The eighth case was a patient who had been several times operated for a melanotic sarcoma of the glands of the neck. An effusion took place into the left pleura, which, on aspiration, proved to be of a bloody, serous nature. The chest rapidly refilled, and was again aspirated, but his condition gradually grew worse, and resulted in death. No post mortem could be obtained, but it was thought probable that there was a metastatic growth in the pleura.

Abscesses of the Back.—One case was operated for an abscess, resulting from necrosis of the rib. Another was for an abscess following injury.

## BREAST CASES.

Remarks.	Carcinoma; recurrence in Stomach followed by death 14 months after Never recurred in cleatrix.	Carcinoma: pa- tient returned home and went into a state of dementia, from whiteh she died about 2 months	Carcinoma; no recurrence.	Carcinoma; no recurrence to date. Breast had been removed a year previously by surgeon of this city.
Result.	ಚ		ಜೆ	<b>e</b> i
Wound healing.	Wound retracted slightly and healed by granulation.	Wound suppurated and discharged for 3 weeks: healed by granulation	Healed by first intention,	Aubber drain- Wound healed by first age intention. tube.
Axilla Drain- cleared age.	N. S.	Yes.	No.	Rubber drain- age tube.
Axilla	Yes.	Yes,	Yes.	Yes.
Operation.	axillary glands.	temoved breast and axillary glands,	semoved breast and axillary glands.	Semoved axillary
Examination.	umor size of an apple, unpple retract led, axillary glands involved.	umor size of walnuti	umors about the size of hickory nuts.	mlarged glands in axilia; cieatrix from i former operation.
History of patient.	One child 18 years old; no Tumor size of an aptrouble with breast at that ple, nipple retract Removed breast and time; year ago noticed ed, axiliary glands axillary glands. Shall lump in breast, grew involved.	first confinement; year ago Tumor size of walnut Removed breast and notloed lump in eleatrix under old cleatrix, axillary glands, and retraction of skin.	Two children; 3 years ago noticed lump, and since then two lump, and other Tumors about the Removed breast and perfons of breast and one near axillary border; size of hickory nuts. axillary glands, months.	Two children; never had trouble following confine-Enlarged glands in ments; two years ago axilla; clearix from Removed axillary noticed lump in breast; 2 former operation. glands, in axilla.
Posi- tion of tumor.	Left breast.	Left breast.	Right breast.	Left breast.
Heredity and injury.	None.	Nodule appeared in cleatrix of an old abscess.	Had masti- lis four- teen years a g o i n same breast.	None.
Sex and social con- dition.	Fem.	Fem.	Amer. Fem.	Fem.
Native short sectal social age. dition	Amer. 39	Ger. 58.	Amer. 47.	Amer. 54.
No.	I.	II.	III. N. B.	IV.

Adenoma; no re- currence	Carcinoma; eavi- fles containing bloody serum; no recurrence.	Адепоша; по ге- ситенсе.	Adenoma; no re- currence.	Carcinoua: good efeatrix, and no return to date.
∽	⋍	괊	म्रं	~
Wound heated by first in- tention.	Wound healed by first in- tention.	Wound healed by first in- tention.	Wound healed by first in- tention.	Healed byfirst intention; small place left uncoverred, healed by granulation.
No.	No.	No.	No.	Rubber drain- age tube.
No.	Yes.	No.	No.	Yes
kemoved tumor only.	temoved breast and axillary glands.	Removed tumor only, making incision in fold beneathbreast.	Removed tumor only.	Removed breast with entire perforal is major and portion of pectoralis minor: also cleared axillas skin sutured with exception of small place left to grannlate.
Tumor size of an ap-1	l'umor nearly size of la fist; appeared systic with hemorihagic spots in skin.	fumor size of an egg.	fumor size of hickory	Dicatrices from formodnie size of hick-novy nut adherent to perforal muscle; axillary glands enharged.
Two years ago noticed lump; had pain at first; tumor Tumor size of an ap-Removed tumor only. grown of late and pain re- pie.	Two and one half years ago incited tump, but did not'l'unor nearly size of Removed breast and increase in size until 7 a fast; appeared sysmooths ago, when dark tie with bemorths spots appeared in skin over agle spots in skin.	Year ago noticed tump in right breast; had pain of late, and tumor increased Tumor size of an egg. making incision in quite rapidly in size.	Noticed lump in breast few Tumor size of hickory days previously.	One child 19 years ago: in Cicatrices from for-entire perforal is June, '92 noticed lump in mer operations: major and portion breast operated in Jan, '93: modnie size of hiek- of pectoralis minor: 2d operation July, '83: 3d ory nut adherent to also efeared axiliar operation Nov., '93: simply pectoral muscle; skin sutured with tumor removed at each axiliary glands en-exception of small operation.
Right breast.		Right breast.	Left breast.	Right breast.
Моше.	Fem. Had masti- Right tis 18 years mar. ago. breast	None.	None.	Уоне.
Fem.	1	Fem.	Fem.	Fem.
Amer. Fem. 26. single	Amer. 51.	Amer. Fem. 17. single	VIII. Amer. Fem. M. C. 17. single	Amer. Fem
V. M. E.	VI.	V11.	VIII.	IX.

### BREAST CASES.

	cle be one fol- ilk	£ 2		\$
Remarks.	No tubercle bacilli to be found; case one of abscess fol- lowing milk ducts.	Carcinoma; recurrence date.	Аденоша.	No recurrence to
Result.	껆	ਲੂੰ	괦	æi
Wound healing.	Supp urated but discharged with-out retraction of flaps.	Healed by first intention.	Healed by first intention.	Healed by first intention.
Axilia Drain- cleared age.	No.	Rubber draiu- age tube.	No.	No.
Axilia Drain cleared age.	No.	Yes.	No.	Yes.
Operation.	Smallabseess follow'd lines of milk ducts throughout the gland; removed en- tire breast: axilla not invaded.	Removed breast and cleared axilla.	Removed tumor only, making in cistou under fold of breast.	Removed breast and cleared axillar skin drawn very tightly,
Examination.	fumor size of a plum, irregnlar in outline.	lumor size of an egg.	fumor size of an egg.	
History of patient.	Seven children; no trouble following confinements: Tumor size of a plum, year ago noticed lump; irregular in outline. grew slowly; no pain.	Three children; no trouble after confinements: 4 morths ago noticed lump; Tumor size of an egg. Removed breast and grow rapidly of late; pain during last week.	Year ago noticed lump in Removed tumor only. Upper and inner quadrant Tumor size of an egg. making in cistou of breast; grew slowly; no pain.	Two years ago noticed lump; growling slowly of late; no Tumor size of plum, pain.
Posi- tion of tumor.	Right breast.	Left breast.	Left breast.	Right breast.
Heredity and injury.	None.	None.	None.	None.
Sex and social con-dition.	Fem.	Fem.	Fem.	Fem.
Native Sex and social con-	Ашег. 50.	Amer.	'Amer.	Amer. 30.
No.	X. M. H.	XI.	XII.	M. B.

The foregoing tables include 13 operations upon the breast. Eight operations were for carcinoma, four for adenoma, and one for a diffuse abscess. All cases recovered from the operation. One, however, died fourteen months later from carcinoma of the stomach, and one died about two months after the operation, having never entirely recovered her former health. Ten cases healed by first intention. In two cases the flaps were tightly drawn and retracted somewhat, and the wound healed by granulation. In one case, in which there were diffuse abscesses throughout the gland, there was suppuration and discharge of pus without any retraction. One case had been twice operated previously, but only the tumor removed. Another case had been operated with entire removal of the gland, but without clearing the axilla. The usual method of procedure was as follows: on the night before the operation an antiseptic dressing was applied. At the operation, when there was any question as to the diagnosis, the tumor was first incised, and if found to be malignant, the entire gland with the fascia of the pectoralis major, and in some cases portions of the muscle were removed. The incision was then extended to the axilla, and all the fat and glands thoroughly removed. In the case of adenoma the tumor alone was removed. In the case of diffuse abscess, the gland was removed without invasion of the axilla. In certain cases a rubber drainage tube or piece of gauze was used for drainage; the wound was closed with a continuous suture of silk, and an antiseptic dressing applied, with the arm tightly bandaged to the chest.

### OPERATIONS UPON THE GENITO-URINARY ORGANS.

### OPERATIONS ON MALES.

Supra pubic lithotomy	1
Perineal lithotomy	1
Supra pubic cystotomy	1
Perineal cystotomy	1
Perineal section	3
Internal urethrotomy	4
Varicocle	4
Hydrocele	2
Enucleation of testicle	2
Epithelioma of scrotum	1
Circumcision	5
Total	-
	25
OPERATIONS ON FEMALES.	
Vaginal hysterectomy	3
Sloughing fibroids of uterus	2
Tumor of cervix	2
Amputation of cervix	1
Lacerated cervix	8
Alexander's operation	1
Cyst of labia	1
Recto-vaginal fistula	1
Pelvic abscess.	1
Operations for lacerated perineum	4
Operations for cystocle	2
	15
Total	_
	14

### OPERATIONS ON MALES.

### LITHOTOMY.

In the case of supra-pubic operation, the bladder was drained by two large catheters inserted through the wound, and the bladder washed with boracic-acid-solution.

In the case of perineal lithotomy the calculus had become encysted in the neck of the bladder.

### CYSTOTOMY.

CASE I.—Was a patient who had suffered for several years from cystitis. Everything in the way of constitutional and local treatment had been tried. The pain was so severe that the patient was unable to do work of any kind. Supra-pubic cystotomy was performed, the bladder drained and washed at frequent intervals. No improvement took place for several weeks, but treatment was continued, and the patient is now entirely well.

CASE II.—Was a child two years old.

The mother noticed that the child would cry when urinating, and on two occasions preceding the operation there had been retention, which was finally relieved by hot applications.

August 18, 1894. Child again had retention which was not relieved by applications. Patient brought to office with bladder distended to umbilicus; catheter could not be introduced; was sent to hospital and supra pubic cystotomy performed; neck of bladder presented what seemed to be a diverticulum. Drainage tube introduced into wound. On removal of tube two weeks later urine was voided normally for a time, but the symptoms returning, a perineal lithotomy was performed September 18. Patient made excellent recovery, and has had no further trouble.

### PERINEAL SECTION.—THREE CASES.

CASE I.—Patient, a boy of 17 years of age, had a fall and struck on the perineum. Retention of urine followed and perineal section performed. The urethra was found to be ruptured completely across. The two ends were found and stitched together with catgut,

a soft rubber catheter introduced into the bladder. This was removed about the fifth day. Sounds were passed at intervals, and patient has made a complete recovery.

CASE II.—Patient, thirty years of age, had a stricture resulting from an old gonorrhea. Patient had had retention of urine on numerous occasions, and had been able to relieve himself by the use of a small catheter. About a week before he came to operation he broke off about two inches of the catheter and all attempts to remove it with forceps were unsuccessful. A perineal section was performed as a last resort, the broken catheter removed and the surrounding urethra found to be gangrenous. The wound readily healed but patient has neglected the passage of sounds, and the stricture has partially returned.

CASE III —Was for retetnion of urine following stricture. The case presented no unusual appearance, and made a complete recovery.

### INTERNAL URETHROTOMY.

All the cases were for strictures resulting from gonorrhea. Maissonneuve's urethrotome was employed, with the usual after treatment by passage of sounds.

### VARICOCELE.

The method of open incision with ligation and resection of a portion of the veins were employed. The wounds were closed without drainage and sealed with a dressing of collodion. In one case considerable suppuration followed, owing to the early removal of the patient from the hospital to his residence. The wound, which was in excellent condition before his removal, became inflamed and a small abscess formed. This was incised, and the patient has made a complete recovery.

### HYDROCELE.

The method of incision with exterpation of the sack was employed. Both cases healed by first intention, and there has been no recurrence.

#### ENUCLEATION OF THE TESTICLE.

CASE I.—Patient, about 43 years old, had been previously operated for varicocele. After the operation patient had extreme pain in the testicle, so severe that he became melancholic, and insisted upon the removal of the organ. This was done, and there has been no further trouble.

CASE II.—A hydrocele of long standing.

Upon incision the testicle was found to be worthless, and extirpation was deemed preferable to the ordinary method of excision.

## EPITHELIOMA OF THE SCROTUM.

The patient about 45. About three years previous noticed a small excoriation on the scrotum. This refused to heal, the base became more indurated, and the ulceration extended slowly until it reached about the size of a nickel. Excision was performed; the wound healed by first intention, and there has been no recurrence. Microscopic examination showed it to be an epithelioma.

#### CIRCUMCISION.

The circular method was employed with the addition of a dorsal incision when necessary.

#### OPERATIONS ON FEMALES.

## VAGINAL HYSTERECTOMY.

Two operations were for complete prolapse. Both patients made uninterrupted recoveries. The third case was for carcinoma of the cervix. The operation was unusually difficult owing to inflammatory deposits in the broad ligaments. The patient did not react well after the operation, and died on the third day.

#### SLOUGHING FIBROIDS.

One case, a patient of 42, was in a septic condition at the time of operation. A sloughing mass presented through the os; this was seized by forceps, the capsule incised, and the tumor torn from its attachments. About two weeks after the operation, patient had an exhausting hemorrhage which was temporarily controlled by a

tampon. On the following day the tampon was removed and hemorrhage again took place. Examination showed it to be from the circular artery which was ligated. The patient made a complete recovery.

In the second case a similar method was pursued, and the patient made an uninterrupted recovery.

## LACERATED CERVIX.

Cat-gut was used for sutures in all cases with perfect results.

## RECTO-VAGINAL FISTULA.

Fistula was about an inch and a half above the sphincter ani. A grooved director was introduced and the recto-vaginal wall divided to the fistula, the edges of which were also freshened. The mucus membrane of the rectum was sutured with fine cat-gut and the perineum with deep sutures of silver wire. A perfect result was obtained.

#### PELVIC ABSCESS.

Origin of abscess in the tubes. Opening made through posterior vaginal wall, and cavity flushed and packed with iodoform gauze. Daily dressings were made and wound closed in about eight weeks.

#### OPERATIONS FOR LACERATED PERINEUM.

Tate's operation was performed in all cases with silver wire for the deep sutures.

#### DILATATION AND CURETTING.

After curetting the interior of the uterus it was treated with applications of Churchill's Tr. of Iodine or Liq. Ferri Perchlor, and packed with iodoform gauze.

## OPERATIONS UPON THE RECTUM.

Hemorrhoids																					6
Fistula																					10
Fissure																					5
Peri-rectal abscess:																			•		4
Stricture																•				• • •	4
Epithelioma						•	٠.														1
	т	ot	- <sub>0</sub> 1																		30
	1	Οl	aı	•	٠.	•	٠.	•	•	٠.	•	•	٠.	•	٠	•	•	•	•	٠.	90

#### HEMORRHOIDS.

Allingham's operation by ligature through the base was performed in all the cases. After the operation a short drainage tube, wrapped with iodoform gauze, was inserted into the bowel and held in place by a T bandage. This dressing was borne with great comfort by the patient, and facilitated the escape of flatus. The bowels were moved about the fourth or fifth day, the injection being given through this tube.

#### FISTULA.

The sinuses were opened and curetted and wound packed open with gauze. The greatest care was taken at subsequent dressings to keep the wound well packed to the bottom, in order that no small fistulous tracts would remain behind.

One case had been running for ten years. One of the sinuses having burrowed through the gluteal muscles and opened near the great trochanter. This entire surface was incised, and the patient has made a complete recovery.

## FISSURE.

In three cases the fissure was dissected out and the wound closed with cat-gut sutures. All three cases healed by first intention, and the patients had no further trouble.

In two cases the fissures were so extensive that they could not be sewed up, and after curetting were left to heal by granulation.

## PERI-RECTAL ABSCESS.

Incision and curetting.

#### STRICTURE.

Two cases were caused by ulcerations and subsequent cicatricial contractions. One case was of syphilitic origin and the other a cicatricial contraction following an operation for imperforated rectum.

## EPITHELIOMA OF THE RECTUM.

The case was a lady, whose first operation was reported in our Resume of last year. The first operation was performed May 13, 1892, when a pedunculated mass was removed, and further examination by the microscope showed it to be an epithelioma. No recurrence took place until the summer of 1893, when a nodule appeared near the old cicatrix. This caused no pain, but grew slowly and the surface ulcerated. A second operation was performed October 1, 1893. The growth was removed, and wound again healed. There has been no further trouble up to date.

## OPERATIONS UPON THE HEAD AND NECK.

77 1 ' '	
Trephining	1
Abscess of frontal sinus	1
Abscess antrum of Highmore	1
Abscess mastoid	3
Retropharyngeal abscess	1
Periostitis skull	1
Periostitis superior maxillary	1
Periostitis inferior maxillary	1
Abscess of neck	4
Abscess parotid	1
Sarcoma parotid	2
Sarcoma of inferior maxillary	1
Goiter	1
Angioma of tongue	1
Carcinoma of floor mouth	1
Nævus	2
Epulis	1
Ranula	2
Epithelioma of forehead	1
Glandular tumor of neck	4
Tonsillotomies	4
Atheromata	8
Operation for deviation of septum	1
Resection of infra-orbital nerve	2
Laryngotomy for foreign body	1
Cleft palate	2
Harelip	10
Total.	<del></del>

#### TREPHINING.

The patient was hit on the head with a brick while passing a building in process of construction. He was not rendered unconscious by the blow, and did not consider himself severely injured. Several hours later he walked to Dr. Allen's office, and on examination it was found that a piece of the skull, about the size of a quarter, had been broken and depressed. The patient was sent at once to the hospital, and the piece of bone removed. He made an uninterrupted recovery.

## ABSCESS OF FRONTAL SINUS.

Patient was about 50 years of age. Six months previous to time of operation she had influenza, with severe frontal headache. Shortly afterward she noticed some swelling between the eyes, which steadily increased in size. In January she presented herself at the clinic. Examination showed a fluctuating tumor about the size of an egg, between and slightly above the eyebrows. An operation was advised and performed. On making the incision about four ounces of pus was evacuated. There was an opening in the bone about the size of a dime, and the cavity within measured two and one-half inches in depth, and about two inches in diameter. The wound was tamponed with iodoform gauze and daily dressings made; with irrigation of the cavity. A small sinus remained at the last examination, several months after the operation, but the patient suffered no inconvenience.

#### MASTOID ABSCESS.

The following case is worthy of report somewhat in detail.

W. S. Age 4. In January, 1894, had scarlet fever, followed by inflammation of the middle ear. The physician in attendance made an incision over the mastoid, and drilled into the bone. On April 29, Dr. Darby was called to the case. The child had a high fever and was delirious, and there was swelling and extreme tenderness over the region of the mastoid. Dr. Allen was called in consultation the same day.

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On April 30 an incision was made and the mastoid cells opened with a chisel. The interior of the bone was thoroughly curetted, and it was noticed that pus was escaping through an opening communicating with the interior of the skull. This was enlarged with a chisel, and about 4 or 5 ounces of pus was evacuated from the interior of the skull. The wound was packed with iodoform gauze, and daily dressings made. The condition of the child after the operation was considered hopeless, but he rapidly improved, and was able to leave the hospital about a month after the operation. The child was seen in October, 1894, and is entirely well.

### ABSCESS OF THE PAROTID.

This case is reported among the operations for appendicitis. The gland was incised two days after the swelling was first discovered, and before an abscess of any size had formed. Minute points of suppuration, however, could be distinguished throughout the gland. The patient survived the operation only a week, dying of general infection.

## SARCOMA OF THE PAROTID.

CASE I. M. M. Age 16.

Two years previous discovered a swelling in the region of the left parotid, this steadily increased in size, and was removed by a local surgeon. The growth reappeared a few months later, and was again removed. In May, 1893, consulted Dr. Allen. The growth was about the size of a walnut, and was growing steadily. An operation was advised and performed, and the former cicatrices removed together with the tumor. There was considerable depression after the removal of the growth, and during the operation the facial nerve was wounded, so that for a time there was complete paralysis of the side of the face. Four months after the operation the patient was seen, and the paralysis was scarcely noticeable at that time. There had been no return of the growth.

Case II. J. B. Age, 49.

Two years ago noticed a swelling in region of the right parotid.

This grew for a time and then ceased. About three months before the time of operation the tumor commenced to grow rapidly, and on January 20, 1894, an operation was performed. On incising it was found that the tumor was a melanotic sarcoma, and could only be partially removed. The incision healed by first intention, and the tumor was injected with erysipelas, This, however, seemed to have little effect, and the treatment was discontinued. For several months after the operation there was no change in the tumor, but of late it has commenced increasing slowly in size.

## SARCOMA OF INFERIOR MAXILLARY.

M. P. Age, 22.

In July, 1893, noticed a slight swelling of the lower jaw, about the region of the bi-cuspid teeth. In August consulted Dr. Allen, and a piece of the tumor was removed for microscopial examination, and proved to be an osteo-sarcoma. The patient consulted Drs. Bull and Lange, of New York, and operation was advised by all. On October 2, the growth was removed and the bone chiseled away, leaving only a thin rim along the inferior border. The mucus membrane of the mouth was sutured, and drainage was established through the external opening by means of iodoform gauze. For some time after the operation small spicules of bone were discharged through the sinus. The wound has entirely healed, and one year after the operation there had been no signs of any recurrence.

#### GOITER.

R. D. Colored. Age, 38.

Always healthy. When 14 years of age a lump appeared in the neck near the median line. Ointment was applied and the tumor disappeared. At the age of twenty an enlargement was noticed on the right side of the neck in the region of the thyroid gland. This grew rapidly for a time and then more slowly, until five years ago when it ceased growing, and another tumor appeared in the corresponding region on the left side of the neck. This has grown slowly but steadily. Patient was first seen by Dr. Allen, in September,

1893. The growth on the right side was found to be the size of a fist, lobulated and movable. The tumor on the left side was about the size of an egg. The patient complained of shortness of breath and the voice had changed somewhat of late. The entire growth moved with the larynx during deglutition. An operation was performed on September 19, and the tumor on the right side was removed. The wound healed by first intention and the patient was advised to have the other side operated at a later date, but she suffers little inconvenience, and prefers to delay until the symptoms are more urgent.

#### NÆVUS.

In one case the tumor was dissected out with an elliptical incision, and the wound healed by first intention. In the other case the discoloration was too extensive to permit of excision, and the galvano cautery was applied.

## RANULA.

The cysts were dissected out with scissors and the bases cauterized, in order to destroy any portions of the sac which might remain behind.

#### ATHEROMATA.

The following case is of peculiar interest. Patient had an atheroma of the scalp, which suppurated and discharged, and a small sinus remained which had been discharging for about two years. In April, 1894, Dr. Allen incised under cocaine, and removed the sac. It was noticed, however, that the edges of the wound were indurated, and a piece was removed which proved to be an epithelioma. At a subsequent operation an elliptical incision was made, removing the entire growth, and healing took place by first intention. There has been no recurrence.

#### RESECTION OF INFRA ORBITAL NERVE.

Both operations were for neuralgia of long standing. In both cases there was immediate alleviation of the symptoms, and the patients have remained perfectly well.

## CLEFT PALATE.

CASE I.—A girl nine years of age. The cleft extended through the soft palate, and through about three-fourths of the hard palate. The operation was a perfect success, the wound healing by first intention.

CASE II.—Was a child two years of age, an operation had been performed several months previously, but the flaps had not united. A second operation was performed by Dr. Allen. The soft palate united, but the stitches in the hard palate gave way. The case, however, is somewhat improved, and will be able to wear a plate to fill in the hard palate.

#### HARELIP.

Two operations were for double harelip and the remainder were for clefts on one side only.

# OPERATIONS UPON THE UPPER EXTREM - TIES.

Effusion elbow joint	1
Tubercular abscess elbow	1
Metastatic abscess shoulder	1
Necrosis wrist	1
Resection elbow	2
Reduction dislocated humerus	1
Reduction dislocated elbow	2
Bullet in hand	1
Needle in hand	2
Ganglion	2
Tenotomies	2
Web fingers	2
Dupuytrens contraction	1
Sarcoma	1
Resection ulner nerve	1
Phlegmon	8
Amputations	6
Total	

## EFFUSION ELBOW JOINT.

Patient received injury several months before the time of operation. There was no serious inflammation at the time, but tenderness remained, especially on moving the joint. Elastic bandages had been tried, but the effusion did not disappear. Aspiration with removal of the fluid, and injections of iodoform and glycerine were followed by complete recovery.

## TUBERCULAR ABSCESS OF THE ELBOW.

Patient, a boy about 18, received injury to left elbow when about 12 years of age, made complete recovery and had no trouble

until about four months before operation, when joint became swollen and very tender. An abscess was opened and drained, and injections of iodoform were employed, but sinuses remained which opened from time to .time, and the joint being ankylosed, the patient later came to a resection.

#### METASTATIC ABSCESS SHOULDER.

Patient confined about three weeks before operation, had miserable surroundings and was in poor state of health. Septic infection took place, and a few days before operation inflammatory symptoms developed in right shoulder. An abscess containing about two pints of pus was opened and drained, but patient already being in a septic condition did not rally after the operation, and died the following morning. Post mortem showed head of humerus and glenoid fossa denuded of periosteum. The abscess had dissected backward under the sub-scapular muscles, into the axilla, and half way down the humerus.

#### RESECTION OF ELBOW.

## . CASE I. L. T. Milliner. Age, 23.

No history of tuberculosis. Injured right elbow six years ago, but had no trouble until about two years ago, at which time the joint became swollen and tender around the elbow. An abscess formed which was opened six weeks before the operation, and a sinus remained which discharged from time to time. The joint was partially ankylosed, and very tender on pressure. Resection was performed, the end of the humerus removed, and also the head of the radius and olecranon. The wound was closed, with iodoform gauze drainage, and placed in a plaster dressing, with a window cut through over the wound. The wound was entirely healed about four weeks after the operation. An elastic bandage was worn for several months to support the joint. The patient was seen one year after the operation. Can sew as well as before, can place the hand on top of the head, and has excellent control of the extremity.

CASE II. B. B. Age 28. Dislocated right elbow June 1, 1893.

In August an attempt was made to reduce the dislocation, but without success. In October a resection was made, and a portion of the ulna removed. On the second day the patient developed delerium tremens, and tore the dressings from the arm. The patient was in a bad condition for about ten days, the wound suppurated and healed by granulation. Patient was seen about eight months after the operation. Can raise hand to the mouth, and extend it nearly straight.

#### GANGLION.

In both cases the ganglion was dissected out, and the wound closed. Healing took place by first intention.

## WEB FINGERS.

CASE I. Bohemian child. Two years of age.

The index, middle and ring fingers were webbed to their extremities.

They were divided and the surfaces between the fingers covered with skin flaps. Healing took place by first intention.

CASE II.—Patient burned the hand about three months before the time of operation. This was followed by a cicatrix which united the little and ring fingers about one-half their length An operation similar to the previous one was made with complete success.

## DUPUYTREN'S CONTRACTION.

A V shaped incision was made and bands dissected out. Union took place by first intention.

#### SARCOMA.

Tumor was situated on posterior surface of the thumb. Was about the size of an English walnut, and the skin over the tumor very thin and about to break down. The growth was removed and proved to be a cysto-sarcoma. The operation was made under cocaine, and was followed by some suppuration. There has been no local recurrence.

## RESECTION ULNER NERVE.

Patient received a perforating injury along ulnar border of the

hand. This was followed by inflammation and extreme pain in the parts supplied by the ulner nerve. Amputation of the little finger was performed, with removal of the corresponding metacarpal bone. The pain, however, did not subside, and resection of the ulner nerve was performed just above the wrist. Only slight improvement has taken place.

#### AMPUTATIONS.

Wrist 1. Fingers 5.

The amputation at the wrist was performed for an injury which completely destroyed the hand.

Two amputations of the fingers were for necrosis, two for cicatricial contractions following burns, one for injury.

## OPERATIONS UPON THE LOWER EXTREMITIES.

Caries	2
Necrosis	3
Bursa great trochanter	1
Periostitis, (tibia)	1
Cauterization knee for tuberculosis	1
Cauterization of ankle for tuberculosis	1
Periarthritic abscess knee	1
Abscess of thigh, following fracture	2
House maid's knee	2
Floating cartilage knee	2
Needle in thigh	1
Tenotomy	2
Operations for club foot	7
Atheroma (suppurating)	1
Lipoma	1
Lymphoma groin	2
Ligation of femoral artery following injury	1
Phlegmon foot	1
Amputations	5
Total	<del></del> 37

## CARIES OF THE TIBIA.

In one case the process had extended to the ankle joint, which was opened during the operation. The tubercular material was curetted out, and the patient made an excellent recovery with good use of his ankle.

In the second case the process had involved the periosteum, extending about one-half way up the tibia. This case later came to a second operation.

#### NECROSIS.

In one case the process had commenced in the great trochanter. In another case the process had involved the entire spaft of the tibia, and the incision was made from the tubercle of the tibia nearly to the ankle joint. The sequestrum was removed, and the entire interior of the bone scraped. Both patients are entirely well.

## BURSA OF THE GREAT TROCHANTER.

Patient was a lady about thirty years of age. There was a history of tuberculosis in the family, and the case had been diagnosticated as one of hip joint disease. On examining the case it was found that there was good motion of the hip joint, but an enlargement could be distinctly felt over the great trochanter. On cutting down, a soft inflammatory mass was found lying over the great trochanter, but the bone was not involved. The cavity was curetted and packed with iodoform gauze, and healing took place by granulation.

## PERIARTHRITIC ABSCESS OF THE KNEE.

The patient had been injured while playing foot-ball and an acute inflammation followed, which involved the pre-patellar bursa. A small opening had been made, but the inflammation was extending, and threatened involvement of the joint. Lateral incisions were made, and free drainage established. The case made a good recovery without the extension of inflammation into the joint.

#### HOUSE MAID'S KNEE.

In both cases the bursa was dissected out, and the cases healed by first intention. The incision was made at the side in order that the cicatrix might be in a place less liable to pressure.

## FLOATING CARTILAGE OF THE KNEE.

The joint was opened and the cartilage removed. In one case the effusion in the joint was bloody, the trouble having been caused by an injury.

#### OPERATIONS FOR CLUB FOOT.

Case I.—A. P. Age, 8. xtreme equino-varus. At the first

operation, May 24, 1893, the planter fascia was divided and a wedge-shaped piece of bone removed from the outer border of the foot, and a plaster bandage was applied. On July 4 a second operation was performed, and the tendo-Achilles divided. The foot was again placed in a plaster cast, and allowed to remain for several weeks, when a brace was fitted and worn for several months. The patient has excellent use of the foot and there is scarcely any deformity.

In the other cases tenotomies alone were made.

## AMPUTATIONS.

One amputation of the thigh for tuberculosis of the knee. One amputation of the leg for injury. Three amputations through the metatarsis for injury of the foot.

## MISCELLANEOUS CASES.

Skin grafting	1
Resection coccyx	]

## SKIN GRAFTING.

Patient had extensive cicatrices on posterior surface of both hands as a result of burns. Cicatrix was dissected away and Thiersches, method of grafting employed.

#### RESECTION OF COCCYX.

Patient had had a fistulous opening since birth, which at times would close and again open, with a discharge of thin pus. Fistula could be traced with a probe to the border of the coccyx. No connection could be established with the rectum. At the operation the fistula was found to extend to the anterior surface of the coccyx, which it became necessary to remove in order to complete the operation. The anterior surface of the bone was partially denuded of its periosteum. Case was undoubtedly one of congenital cyst, with suppuration of the sac and later involvement of the bone.

